

Figure 2

Figure 3

5 '		11	21	31	41
-	TGTATGGGAA	TAGTGTTTCC	CATATGATCTO	TTGTCTGGAG	TATATGCTAC
1	ACATACCCTT	'ATCACAAAGG	TATACTAGAC	CAACAGACCTC	TATATGCTAC ATATACGATG
		·			broom T
5 '		61		81	91
	ATGTTCATTT	ACTGTACAAA	AACCCAGTGC	CAGCTGATGAI	GCAAAGCAGT ACGTTTCGTCA
эΤ	TACAAGTAAA	TGACATGTT	TTGGGTCAC	TCGACTACTA	ACGTTTCGTCA
5 '		11	21	31	41 STACTTGCCCA CATGAACGGGT
101	CTCTCTCTGT	GTACAGTGCC	CCACCTATTI	TAAAAATCACG	TACTTGCCCA
101	GAGAGAGACA	CATGTCACGG	GGTGGATAAA	ATTTTTAGTGC	CATGAACGGGT
5 '		61	71	81	91
	GAACACTGTG	AAACACTTAA	CATAAGAACA	AACGCAGCGI	91 CTGGATTCTT GACCTAAGAA
TPT	CTTGTGACAC	TTTGTGAATT	GTATTCTTGT	TTGCGTCGCA	GACCTAAGAA
5 '	TCCAAGGAGA AGGTTCCTCT	11 probe 2	21	31	41
0.01	TCCAAGGAGA	GCAGCTTTCT	'CCACAGGAAC	CACAGTAACAA	AAGAGGTCCG
201	AGGTTCCTCT	CGTCGAAAGA	GGTGTCCTTG	TGTCATTGTT	TTCTCCAGGC
5 '		61	71	81	91
0 = 1	CCGCCATCCA GGCGGTAGGT	CACCCAGCCA	AGACACCTCA	GAGGCCATAG	GGACAACCTC
25I	GGCGGTAGGT	GTGGGTCGGT	TCTGTGGAGT	CTCCGGTATC	CCTGTTGGAG
5 '		11	21	31	41
201	CTTGCTGGCC. GAACGACCGG	AACACCTGCT	GGAGCAGGGG	CACAGGTCCC	AGCAACTGAT
301	GAACGACCGG'	TTGTGGACGA	.CCTCGTCCCC	GTGTCCAGGG	TCGTTGACTA
5 '		61	71	81	91
2.51	CCTCAGTGGA'	TGGGTCTGCA	GCCAAAGCCT	TAATGGGCTC	TCTTTTGAAG
321	GGAGTCACCT	ACCCAGACGT	CGGTTTCGGA	ATTACCCGAG	AGAAAACTTC
5'	: GGGAAAGAAA CCCTTTCTTT	11	21	31	41
401	GGGAAAGAAA	GAATTTCAAG	CTTATGATAT	CCAATATTAT	TATAGTTGAT
401	CCCTTTCTTT	CTTAAAGTTC	GAATACTATA	GGTTATAATA	ATATCAACTA
5 '	•	51	71	81	91
451) GAGTTAGTAA CTCAATCATT	ATTCCAAAAA	AAAA		
4 D T	CTCAATCATT!	PAAGGTTTTT	TTTTT		



Figure 4

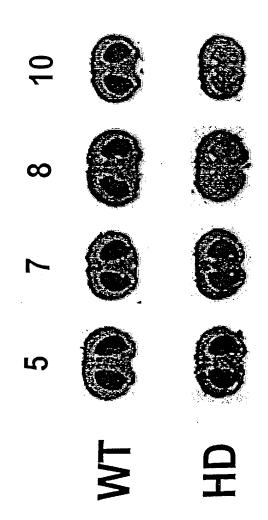


Figure 5

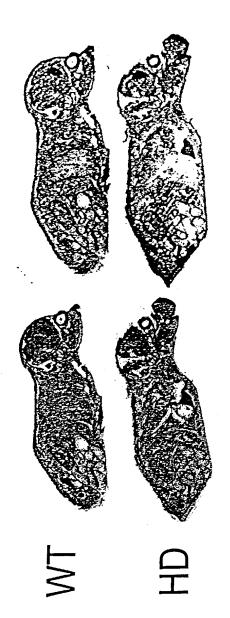
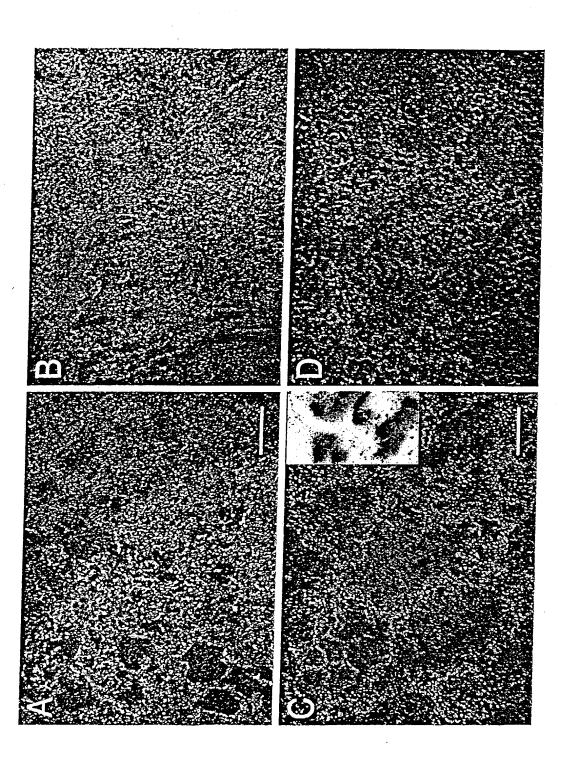


Figure 6







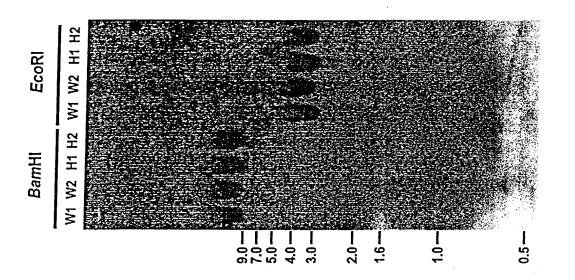


Figure 10

5' CACTGAA	11 GCTGGTCCAC	21 GTCTATAA	31 ACAGGTGACAC	41 IGGCTGCAGCAAAA ACCGACGTCGTTTT
¹ GTGACTT	CGA CCAGGTC	CAGATATT	TGTCCACTGTG	ACCGACGTCGTTTT
5 '	61	71	81	91
51 AGCCATTO	CGA TCCACAC GCTAGGTGTG	AAATTGAT(TTTAACTA(CTTCTATCATC SAAGATAGTAG	TTGGAATCTGAATT AACCTTAGACTTAA
5'	11	21	31	41
101 GCAGGGAC	EGA GCAGTAT CCT CGTCATA	GTA AGACGA CAT TCTGCT	CCGTTTAATT(GGCAAATTAA(CAGG CATTCCGAAG STCCGTAAGGCTTC
5'	61	71	81	91
151 GCATGAGO CGTACTCO	CGCATGGATT CGTACCTAA	CTGTCACCA GACAGTGGT	AGCGTATAAA! TCGCATATTT	AGGA CCCTGGCATT CCCTGGGACCGTAA
5'	11	21	31	41
201 GGGAAACC	TATGACGGA ATACTGCCT	CTGTTTTTG SACAAAAAC	CTGT AGAAGTA GACA TCTTCAT	41 AGGGATTTTACAGA CCCTAAAATGTCT
5 '	61	71	81	91
				AGAGGAACCTGCC TCTCCTTGGACGG
5 '	11	21	31	41
		CAGTCTCT AGT CAGAGA	TGTGAAATAGT ACACTTTATCA	41 ATCATGTGAGAAA TAGTACACTCTTT
5'	61	71	81	91
351 CAGTTTGT. GTCAAACA	AGAAAAAAA TCTTTTTTC	TATACCTG SATATGGAC	EGAA GACCTTT CCTT CTGGAAA	GCAACATTGTTCC CGTTGTAACAAGG
5'	11	21	31	41
				GCCCGGAATAAAC CGGGCCTTATTTG
5'	61	71	81	91
451 ATCCGGTC	BATACAGCCA CTATGTCGGT	TGTTTAGTT ACAAATCAA	AATAATTTGG TTATTAAACC	91 FTTTAGAATTCAC AAAATCTTAAGTG
5'	11	21	31	41
501 ACAGGCAGG	ATTGGTTTT TAACCAAAA	TTTGTGTCT AAACACAGA	TGG CAAGTGGA ACCGTTCACC	AGCATATTTAACA CCGTATAAATTGT
5 1	61	71	81	91
551 TACAGGCAT ATGTCCGTA	'GGGAATCCT(.CCCTTAGGA(GCTCTTAG CGGAGAATC	CTTTTCCCAC(GAAAAGGGTG(CCTCTTGTCTCAC GGAGAACAGAGTG
5 '	11	21	31	41
601 CAAGTTTTT GTTCAAAAA	TCTCTCCAA! AGAGAGGTTT	AGGTTTCCA CCAAAGGT	GGA ATTTCTCA CCT TAAAGAG1	ATTAATGGCTGAT 'AATTACCGACTA

	5 '	(51	71	81	91
	65.	GCAAACTTAG: CGTTTGAATC	rgaataata:	ATGAATATAA	ACAATGCTCA	CCTCACCAAA
	05.	CGTTTGAATC	ACTTATTAT'	FACTTATATT	TGTTACGAGT	GGAGTGGTTT
		-	1	0.7	2.4	
	5 '		L1	21	31	41
	703	TTATTATATT AAATAATAA	CCAGTCAT.	TGTGATAACA	ACAAATTTTA	T CGCAATGGTT
		AAIAIAAIAAA	ACGI CAGIA	HCACIALIG.	IGITIAAAAT.	AGCGTTACCA
	5 '	ϵ	51	71	81	91
	7.5					
	751	TTAATTTATTA AATTAAATAAT	ACACCGGT	TGTGACACC	ATAGAAAAC	AACACCAACA
		_	_			
	5 '	1	.1	21	31	41
5.4	801	TCTGAGAAAAT AGACTCTTTTA	'GTTCTTGGA	TATGTAAGT	CCAATACCA	GTGTGAAGTAT
		AGACTCTTTTA	.CAAGAACCI	'ATACATTCAC	GGTTATGGT	CACACTTCATA
25	5'	6	1	71	81	91
	5					
	851	TGATCCCGGG C ACTAGGGCCCG	TCGTTTTAT	GTCGGATTCC		TACTTAACATACT
ij	*	110111000000		01000111100		1101111101111
	5 '	1		21	31	41
	007	CTCAGTTCATC GAGTCAAGTAG	AGAGGGCCT	GAGAAGCTGC	GGGGCAGTGT	TAAAGTAAAGT
:	901	GAGTCAAGTAG'	TCTCCCGGA	CTCTTCGACG	CCCCGTCAC	ATTTCATTTCA
mile recep			_			
		6:		71		91
esi Th	951	ATGCTGGGCTG	GTGGTGGTC	AGCCTCCCGC	CTGAAGAGTG	FACCAGTGCTG
original designation of the second se		TACGACCCGAC	CACCACCAG	TCGGAGGGCG	GACTICICAC	TGGTCACGAC
	5 '	13	1	21	31	41
		GCCCGACGGAT(- СССТСАСАТ	ATTCTCCCAT	AATGGCAAAA	AAATAGGCAG
	1001	1: GCCCGACGGATC CGGGCTGCCTAC	GCGACTCTA'	TAAGAGGGTA	TTACCGTTTI	TTTATCCGTC
	5 '	61	L '	71	81	91
	1051	TTTGATGTGACC AAACTACACTGC	CTGTTTAGT	GTGGCTCTCC	TCTTTTGAGC	ATGTGTTAGC
	1051	AAACTACACTGO	FACAAATCA (CACCGAGAGG.	AGAAAACTCG	TACACAATCG
	- ,	17		7.7	7 7	47
	5'	L T T T COMPANIES COMPANIES	Magana		31 100000000000000000000000000000000000	# T
	1101;	11 ATTTTTATTTTA TAAAATAAAAT	TACTCATC(CAGIGAACIC	NCGNGN NCCT	AGIGIGI ICA
		IHHHHHIHHH	DAIDADIA	JI CACII GAG	HCGAGARDAI	I CACACAAGI
	5 '	61		71	31	91
		GTATGTGCTAG	ATATATTA	CACAGCCTG	CCTTCTGCTG	CACAACGCCT
	1151	rgtatgtgctag Acatacacgatc	TATATAAT	CGTGTCGGAC	GAAGACGAC	GTGTTGCGGA
	5'	11	_		31	41
	1201	AGAGACCCGGC TCTCTGGGCCG	CTTTCAAT	SAGCTTAGCT	CGTGCTCTGT	TTCTGCTCTC
	· - I	ATCTCTGGGCCG	GAAAGTTAC	TCGAATCGA	ACACGAGACA	AAGACGAGAG
	5 '	61	•	· 1) 1	0.1
		-			· 	91
:	1251_{p}^{1}	TAGGTCTAAAC ATCCAGATTTG	THIGGIGIC	ϪϹϪϪϪͳͳΑΑͳϜ	OPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	TATGCATCTT TATGCATCTT
	4			-~~~~~~~		

5 130	GCCTTGGCT	11 TGAGCCTTTI	21 CGTTTTCAAT	31 GCTGACTTCT	41 CCCCTTCTCT GGGGAFAGAGA
					_
5 135	' 1 CCTGTGCTC 1 GGACACGAG	61 ACCTTACCTT TGGAATGGAA	71 TCCAGAGTGT AGGTCTCACA	81 AAGGGACAAC TTCCCTGTTG	91 FTTTAAGGAGG AAAATTCCTCC
5	r	11	21	31	41
140	1 GCACAGGGA	GGTAGGGGCA CCATCCCCGT	TCCCTGTTCA AGGGACAAGT	CCAGGTGCCTC GGTCCACGGA(TCATCACCCC CAGTAGTGGGG
5	፣ አርጥጥርአርጥር፤	61 A CATCTACCC	71 TGGTGACTAT	81 GGGTTCCTCT	91 GTTTGTAGGG ACAAACATCCC
145		rGTAGATGGG.	ACCACTGATA	CCCAAGGAGA	CAAACATCCC
5 '		11 rccacaraca	21 2GCDTCDDTC	31 സമസസമമണസന	41
150	1 TTGCCACCG	AGGTCCACCT			GGTTCCCGGC ACCAAGGGCCG
5 '	·	61	71	81	91
155	TGCCTTTGG ACGGAAACC	L'I'I'I'GAAAGT(AAAACTTTCA(GAGAAGAGACA	TATATTCCTAC ATATAAGGATG	CCTGCATTTG GGACGTAAAC
5 '		11	21	31	41
160	CTTTGTGTGC GAAACACAC	TGCTGATGCT CACGACTACGA	rgtgcgcagta Acacgcgtca:	AGGATTCTTGG FCCTAAGAACC	TACTGAGAGG
5 '		61	71	81	91
1653	ATCAGTCACA TAGTCAGTGT	GACTCCCCCT CTGAGGGGGA	GTTGCAAAGT ACAACGTTTC	rGTCAGGCTGA ACAGTCCGACT	CTCGACAGTC 'GAGCTGTCAG
5'		11	21	31	41
1701	ACCGTAAAAT TGGCATTTTA	'CTGAGTCAGT .GACTCAGTCA	CACACACAGG GTGTGTGTCC	CTGTCAGCCA CGACAGTCGGT	.CGGCTTCCAC GCCGAAGGTG
5'		61	71	81	91
1751	TTGCATGGCT AACGTACCGA	'ATTCTATTT TAAGATAAAA	CACACGTGAG GTGTGCACTC	81 STTTCTGTTGC SAAAGACAACG	TGGCTGGCTG ACCGACCGAC
5 '		11	21		41
1801	ACTGGCATTA TGACCGTAAT	TCTATGCTAA AGATACGATT	GTTGAAATCA CAACTTTAGT	GGAGTGCCCA CCTCACGGGT	GCAGAGCCCA CGTCTCGGGT
5 '		61	71		91
1851	TCATTCTCAC AGTAAGAGTG	TGTCTTTGAA ACAGAAACTT	ACAAAGCTGT TGTTTCGACA	'ACGGTTTGAT TGCCAAACTA	CGATGAACGT GCTACTTGCA
5 '			21		41
1901	ATTTAAAGCA' TAAATTTCGT	TTTCATGCAA AAAGTACGTT.	TGACAAAGTG ACTGTTTCAC	CTCAGTAGTG GAGTCATCAC	GAAGGCAGGC CTTCCGTCCG

5 '	61	71	81	91
1951 ACACTECT	GT CTGCCTGC	TCCTTACTAT	AATTGTGAGG!	91 ATTTGTTACTGG FAAACAATGACC
ACACIGGI	CAGACGGACG			•
5 '	11	21	31	41
2001 TTGTCATG	TA CCTCCGGA	GACCTTGTGG CTGGAACACC	GG GCACAGGG CC CGTGTCCC	TGGAACCTTAGC ACCTTGGAATCG
5 '	61	71	81	91
2051 ACTTATAT	GTGTGTGTCT CACACAGA	CAAGAGGAAG' GTTCTCCTTC	TCAGGGTACTA AG TCCCATGAT	AG CTCAGTGCTC CGAGTCACGAG
5'	11	21	31	41
2101 AATCTCCA TTAGAGGT	GGTACTATAT. CCATGATATA'	ATACATTTGC TATGTAAACG	CCGTTTTATCT GCAAAATAGA	CTAATGTGAAA GATTACACTTT
5 1	61		81	
2151 TAAATCCC	CAAACACTTG' GTTTGTGAAC	TTTATCGTGT/ AAATAGCACAT	AG CGTACCTAA CCGCATGGATT	AAGACTATTCT TTCTGATAAGA
5 '	11	21	31	41
2201 ATTATGGG TAATACCC	TGTCCCCACT: ACAGGGGTGA <i>I</i>	TT CTTGGTTTC AAGAACCAAAC	EG TCACCCCGA CCAGTGGGGCT	TCCCCCGGTCT AGGGGGCCAGA
5 '	61	71	81	91
2251 AGACGACA	ATCTAGAACAC TAGATCTTGTC	STGACTATAAA CACTGATATTI	ATGATGTATGG TACTACATACC	GAATAGTGTTT CTTATCACAAA
5 '	11	21	31	41
2301 CCATATGAT GGTATACTA	CTGTTGTCTC AGACAACAGAC	GAGTATATGC CTCATATACG	TACATGTTCA ATGTACAAGT	ATTACTGTACA TAATGACATGT
5 1	61	71	81	91
5' 2351 AAAACCCAG TTTTGGGTC	TGCAGCTGAT ACGTCGACTA	GATGCAAAGC CTACGTTTCG	'A GTCTCTCTC 'T CAGAGAGAG	TGTGTACAGTG ACACATGTCAC
5 '	11	21	31	41
2401 CCCCACCTA GGGGTGGAT	OTAAAAATTT. DATTTTTAAAA	ACGTACAASC TGCATGTTSG	CCAGAACACTO GGTCTTGTGAO	GTGAAACACTT CACTTTGTGAA
5 '	61	71	81	91
2451 AACATAAGA TTGTATTCT	ACAAACGCAG TGTTTGCGTC	CGTCTGGATT GCAGACCTAA	CTTTCCAAGG GAAAGGTTCC	AGAGCAGCTTT ICTCGTCGAAA
5'	11	21	31	41
2501 CTCCACAGG GAGGTGTCC	AACACAGTAA TTGTGTCATT	CAAAAGAGGT GTTTTCTCCA	CCGCCGCCAT(GGCGGCGGTA(CCACACCCAGC GGTGTGGGTCG
5'	61	71	81	91
2551 CAAGACACC GTTCTGTGG	TCAGAGGCCA' AGTCTCCGGT	TAGGGACAAC(ATCCCTGTTG(CTCCTTGCTG(GAGGAACGAC(CCAACACCTG CGGTTGTGGAC

	5 '		11	21	31	41
	2601	CTGGAGCAGG	GGCACAGGT	CCCAGCAACT	GATCCTCAGT	GGATGGGTCCG CCTACCCAGGC
	2601	GACCTCGTCC	CCGTGTCCA	GGTCGTTGA(CTAGGAGTCA	CCTACCCAGGC
			C1	5 7.1	0.1	
	5 '	ar amar 7.700	61	71	81	91
	2651	CAGTCAAAGC	CITAATGGGG	CICICITIIG	ĸ₽ĸĸĸĸ₽₽₽₽₽ĸĸ ₽₽₽₽₽₽₽₽	AAAGAATTTCA TTTCTTAAAGT
		GICAGIIICO	Office The Color	JHONOMMHC.	1100001110	TICIIAAAGI
	5 '		11	21		41
	2701	AGCTTATGAT	ATCCAACAT	PATTATAGTTO	SATGAGTTAGT	TAAATTCCAAA TTTAAGGTTT
	2/01	TCGAATACTA	TAGGTTGTA	ATAATATCAA(CTACTCAATC	ATTTAAGGTTT
	F 1		61	71	81	91
	5'	አአአአአአአ <u>አአ</u> ርአጥ	Cമനസസസമസമ or	▗▗ ኯ፞፞፞፞፞፞፞፞፞፞፞፞፞ኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯ	ዕቷ አውድልልልውርጣ	፝፞፞ዾጜ ፟ኯኯ፟፟፟፟፟ፚፙኯፚዄዄዀዀ
aut out	2751	TTTTTTTTTT	CTAAAATATA	CATACTGTAT	TTTTTTTAGE	TTGTAAAGTG AAACATTTCAC
	5'		11	21	31	41
	2901	CGCAAGTGCA.	ATAATTTAAA	GAGGTCTTAT	CTTTGCATTI	ATARTAAATA TATAATTAATA
	2001	GCGTTCACGT'	TATTAAATTT	CTCCAGAATA	GAAACGTAAA	TATTAATAT
	5 '	,	61	71	81	91
Ü	5 .			、 、┳┯┯┯┯ĊϪͲϾϮ	'ATTCATTTGC	AGTCTTTGTA
	2851	TTATAACATG'	TACACACATI	AAAAAGTACA	TAAGTAAACG	TCAGAAACAT
nāc .rs _c						
100	5 '		11	21		41
	2901	TTTAAAAAAAA	CTTTACTGTT	'ATGTTTGTAT	'AATAGAACAT	TAATCATTTA
3	2302	AAATTTTTTT	BAAATGACAA	TACAAACATA	TIAICIIGIA	ATTAGTAAAT
	5 '	6	51	71	81	91
	. J	TTATAACTCA	ACAAGGTGT	AAATAAATTC	ATAATTCAAA	CAGCCAGTAT
	2951	TTATAACTCA (AATATTGAGT (CTGTTCCACA	TTTATTTAAG	TATTAAGTTT	GTCGGTCATA
		_	_			• •
	5'] 			31	41
	3001	ATATGCATATA PATACGTATA I	TGGGTGTTA	CATTGCAAAA	ATCTCTATCT TAGAGATAGA	AACAACATAA
		TATACGIATAT	ACCUACAAI	GIAACGIIII	THOMINDADAI	MCAMBAIAA
	5 '	6	1	71	81	91
	(CACATGCTTAA	AGAAGTAAG.	AAATCTTTTG	TGGATATGTA	ATTATACATA
	3021	GTGTACGAATT	TCTTCATTC	TTTAGAAAAC.	ACCTATACAT	TAATATGTAT
			-	o	2.1	4.7
	5'	ı ATATATƏAAGT				41
	3101	TAAAGTATATA ATTTCATATAT	ATATACATA (CTATGTACTT	TATATAAATC	TTTACAAGTA
	5 '	6	1 .	71	81	91
	31 C 1 F	ATTTTAATGG TAAAATTACC	ATATTCTTT	GGTGTGAATA	ATTGAATACA	ACATTTTTAA
	TPT I	TAAAATTACC	TATAAGAAA (CCACACTTAT	PAACTTATGT	TGTAAAAATT
				`	n 1	4.7
	5'	1:			- —	41
	3201 A	ATGAAAAAAA	∖ ₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	₹₽₽₽₽₽₽₽₽ ₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽	ZAAAAA PITITITITITI	



Figure 11 3236 bp

Figure 12

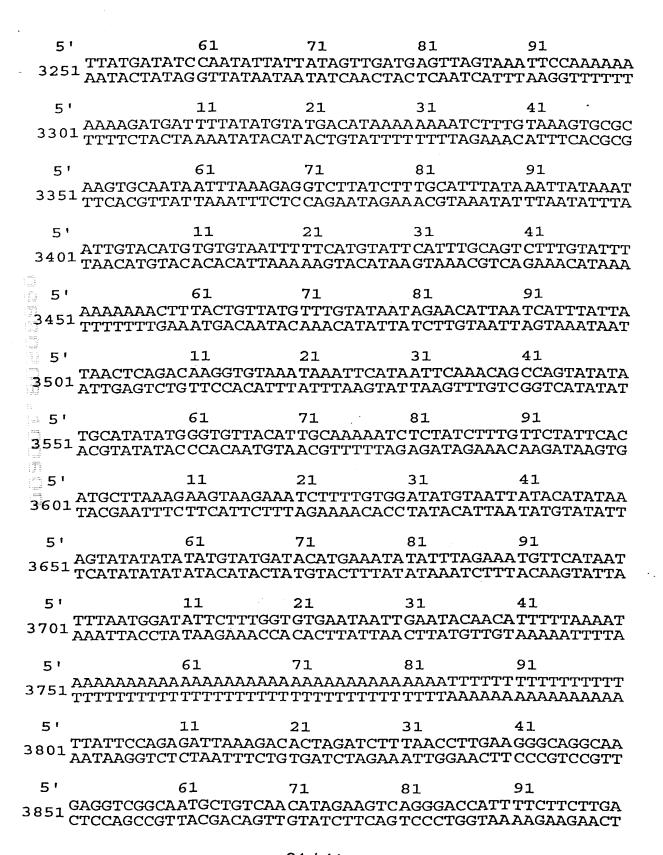
5 '	11		. 3:		1
]	AAGTGTAAATAA TTCACATTTATT	AATAAACATO	AAAAATAAT!	AAATTACATA	CCATAGAGG
_	TTCACATTTATT	TTATTTGTAG	ATTATTTTT.	TTTAATGTA T	GGTATCTCC
5 1	61	71	. 8:	1 9	1 .
C -1	AACAAGATAATT TTGTTCTATTAA	rctgccaac	TTCATACCC	TCCAGCGTAT	AGTGTTGAG
51	TTGTTCTATTAA	AGACGGGT TG	AAGTATGGGA	AGGTCGCATA	TCACAACTC
		0.7			7
5 '	11	21		1 4	_
101	GTTTGGTCTGTT(CAAACCAGACAA	CTGTGTATT	CATTAATGTAAT	V C V V THAAAT I C	ACATECA CT
	CAMACCAGACAA	JORGAGAIAA	CATIACATIA	TCMMI I IIMIO	10111001101
5 '	61	71	81		1
1 5 7	AGGTCTAGGCCTA	CAAGTGAAT	TCTCATGTT1	TTTDADATA	TGTTGTGCA
TOT	TCCAGATCCGGAT	GTTCACTTA	AGAGTACAAA	ATATCTCAAA	ACAACACGT
	7.1	21	21	. A.	1
5"	11 AACCTTGTTCCTT	21 אא א אייייייא איי	31 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		T
201	TTGGAACAAGGAA	TAAAATTTAAA. TTTTTTAAATT	CIAIGGIIAA	YARAACAAAA TTTTTTTTTTT	GTTTTGACC
5'	61 CTACAGCCAATAA	71	81	. 93	L
251	CTACAGCCAATAA	CTGAAGGGG	GTTACCTTGT	'TGAAGGGGT	GGAAAAGAG
	GATGTCGGTTATT	'GACTTCC CC	CAATGGAA CA	ACTTCCCCA	CCTTTTCTC
5'	11	21	31	43	
	AGAGGAGGAAGAA		a da	AAGAACAAGA	
301	TCTCCTCCTTCTT	CCCTCAAGT	CTCTTCCTC	TTCTTGTTCT	CCTCTCCT
Let out the Let ou					
5'	61	71	81	. 91	
351	GGAAGCTGCCACG. CCTTCGACGGTGC	AGGGGAGATO	GGCCATGAG	AACTIGGCCA	CCTCTTTT
	CCIICGACGGIGC	ICCCCICIAC	CCGGIACIC	TIGAACCGGI	CCICIIIA
5 '	11	21	31		-
401	AGCCAGTATCTGG TCGGTCATAGACC	AGTACACCAC	TGAGGAGGT.	AGCCAGGCTA	GCAGTTAG
401	TCGGTCATAGACC'	rcatgtggt@	;ACTCCTCCA	TCGGTCCGAI	CGTCAATC
5'	61	71	81	91	
5 '		न्द्रत्यसम्बद्धाः सम्बद्धाः ७ ४ /			
451;	AAGAGTAGATTAG(FTCTCATCTAATC(CCCAATAAAA	AGGGGGTGA	GGTGTATCAA	TAGTTTCG
5 '	11	21	31	41	
501	CAAATAAAATAACO STTTATTTTATTGO	CATAGTCTGA	GTCTCATCT	ATTTGTAAGC	TAGTTGGG
(3TTTATTTTATTGG	FTATCAGACT	CAGAGTAGA:	TAAACATT CG	ATCAACCC
5 '	61	71	81	91	
				ATTTCTAACA	TAGGAACT
551 ⁷	TATAAGATTAATTT ATATTCTAATTAAA	CCGACATGA	TGTCAAATCT	FAAAGATTGT	ATCCTTGA
5'	11	21	31	41	3 3 3 m < 3 mm
601 ^A	TCAAAAACTTGCT AGTTTTTGAACGA	'CAAACAAGA. GTTTGTTCT'	ACATGCTGAC TGTACGACTC	ATTTTATAAL TAAAATATTE	AAATGATT TTTACTAA

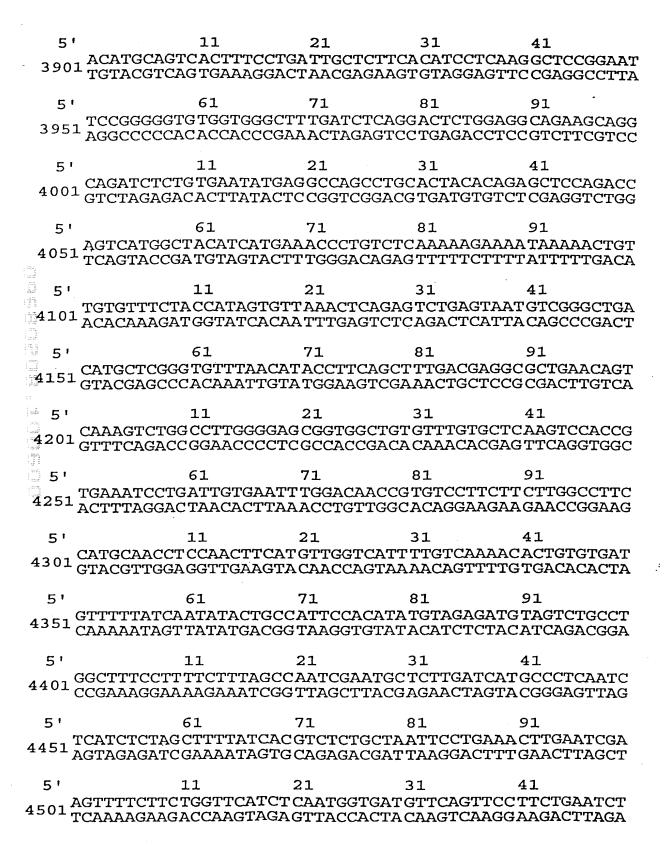
	5 ¹	61	71	81	91	
	cea A	TTTATATTG TTTGCA	CTTTCTAAA	GTTTCTTCTAA	ATGTTCCATGGT	rca
	$651\frac{7}{1}$	'AAATATAACAAACGT	GAAAGATTT	CAAAGAAGATT	TACAAGGTACCA	\GT
		7.7		0.1	4 11	
	5'	11		31		
	701 A	ATTAAAAAA TATACA TAATTTTTTATATGT	TATT GGCTA.	LTAAATTCGTC AATTTAAATTCGTC	TAAG TGGGGCTG	3GA
	1	IAAIIIIIIAIAIGI	MIAACCGAIA	ATTTANGCAG.	MIICHCCCCAC	.CI
	5'	61	71	81	91	
	751 G	AGATAGCTCAGAGGT TCTATCGAGTCTCCA	TAAGAGCACT	GACTGCTCTT	CCAGAGGTCCTG	AG
	, 2 T C	TCTATCGAG TCTCCA	ATTC TCGTGI	ACTGA CGAGAA	GGTCTCCAGGAC	TC
	- .	11	21	7 7	41	
4	5 '	11	21	31	41 ranaman	13 C
4	801 1	TCAATTCCCAGCGAC(AGTTAAGGGTCGCTG(LACA I GG I GC	CICACAGCCA:	I C I G I AAI AGAI XC X T T T T T T T T T T T T T T T T T T	AG
	. A.	AGIIAAGGGICGCIGC	TOTACCACC	OA01010011	TOTICITI INICIA	110
100		61	71			
j	ora Gi	ATCTGACGCCCTCTTC IAGACTGCGGGAGAAC	CTGGAGTGTC	TGAAGACAGC	FACAATGTACTC	'AT
	82T C.	PAGACTGCGGGAGAAC	FACCTCACAG	ACTT CTGTCG	ATGT TACATGAG	ΤA
	- 1	11	21	31	41	
2		11 AATAAAT AAATTATAT				רידו
	901 A	TATTAATTAATTATTATTATT	אאאטאז זאַזאַז יייייייייייייייייייייייייייייייי	MIICIICIAA(TAAGAAGATT(TACA TAGTAAAT	.ፐሌ
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	5'	61	71	81	91	
	OF 1 GA	AATATAT AATTTATA/ TTATATATTAAAATATT	AGTAAATGC	CTCAGGAAATA	TAAACTTGGAA	TT
	951 C	TTATATA TTAAATATT	TCATTTACG	GAGTCCTTTAI	ATT TGAACCTT.	AA
	- 1	7 7	2.3	31	41	
	5'	11 ATCAAAGAACTTCAT	21	CCCV CV V V V V V	Ţ ₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽	~~
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	1.1		C1 C111 C11C			
	5'	61	71	81	91	
	1051 AA	GACCGGAGGGAGGGG CTGGCCTCCCTCCCC	AGA AGGAAG	GGAT GGAGATA	GAA TTTTGCCT	CT
	TT TCOT	CTGGCCTCCCTCCCC	TCTTCCTTC	CCTACCTCTAT	'CTTAAAACGGA(GΑ
	E 1	1 1	27	27	41	
	5 '	▗▘ ▗▘▄┷ĊĊ₼₼ĠĠĠĠĠĠĠĠ	አርአርርጥአጥአ? አርአርርጥአጥአ?	31 \TCCTCTCCA	≖	م رم
	1101 GG	ATTCCTTGGGCTGGC. TAAGGAACCCGACCG	TGT CCATAT	PACGACACCCT	TAA CCCTTTGA'	ГG
		1.1.00.1.00				
	5'	61	71	81	91	
	1151 AA	GGAAGCTG CAAAGCT	GGG CGGAAC	CGTTTCCGCA	AGCTGGGCTCAT	ГC
•	TT TC	CCTTCGACGTTTCGA	CCCGCCTTG	AGCAAAGGCGT	TCGACCCGAGT	AG
	5'	11	21	31	41	
					· -	יחיב
	1201 AT	AGTGTCCATGCATGG(TCACAGGTACGTACC(BACGGTGTGA	CGTCACTTGA	AATTTTGTAAA	Ā
			 			
	5'	61	71	81	91	
1	L251 GT	rccagaga tgtagaga aggtctct acatctct	ATGCTCACAA	TAGTACAAAG	GCG GGAGGGAGG	T
	('Δ'	acac≠TCTCTACAT("TC"	AC:GAGT(**)**	ATCATCTTTC		Α

5'	11	21	31	41
1301 ATTTCCA	GACTAAGAGG.	AAGAAAAAC	CATTGCTGATT	AAA CATCTGCATA TTTGTAGACGTAT
TAAAGGT	CTGATTCTCC	TTCTTTTTG	STAA CGACTAA	TTTGTAGACGTAT
5'	61	71	81	01
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1351 ACTCGCGG	GGGGTGGAGG'	TATGTGTGTGT	TGT GTGTGTG	ACACACACACACA TGTGTGTGTGTGT
5'	11		31	41
1401 CAACCAA	ACAGAACAAA'	PACACATGCA	TGT CTACAGO	CTGCAGGAACAAA GACGTCCTTGTTT
GTTGGTT:	rgt cttgttt/	ATG TGTACGI	'ACAGATGTCG	GACGTCCTTGTTT
5 '	61	71	81	91
איזיכבייאיזיט	₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽	ACCAGGAGA	TGC ACAGGTC	ርጥ <u>ል ል</u> ርርጥርጥርጥርጥ
1451 TACCATAC	CAGACACTCC	TGGTCCTCT	ACGTGTCCAG	CTAACCTCTGTCT GATTGGAGACAGA
5.1	11	21	31	41
1501 CCTACAAG	SCCCTGAAGTC	CTGGTCAGGG	TCAAATGTAC	AAAAGCAGGCTAA TTTTCGTCCGATT
GGATGTTC	CGGGACTTCAG	AC CAGTCCC	AGTTTACATG	TTTTCGTCCGATT
5 '	<i>C</i> 1	71	ΩT	91
5'	OI במיתי תיא כבתיכניא א א	ርያ መመመመመጥ ጉ	ርታ ይርጥርጥ የተመሰረ እ	91 AGGAACAACCTAT TCCTTGTTGGATA
1551 CCTTCGAC	AA ATCACTTI	CTAAAAAAA	GAAGTTGAGA	TCCTTGTTGGATA
5 '	11	21	31	41
TTCCTAGG	AT TTGGAGAG	TGCTCAGGA	GGAAACATTC	AGA CAACTGATGC ICTGTTGACTACG
AAGGATCC	TAAACCTCTC	ACGAGTCCT	CCTTTGTAAG'	TCTGTTGACTACG
5'	61	71	81	91
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1651 AGAGACAC	ATGGGGTCTA	AGTCCATAA	CCCCATCAAT	GTT GTGCTCATGT CAA CACGAGTACA
5 '	11	21	31	41 CACAACGCCTTAG STGTTGCGGAATC
1701 ATGTGCTA	GA TATATTAG	CACAGCCTG	CCTTCTGCTG	CACAACGCCTTAG
TACACGAT	CTATATAATC	GTGTCGGAC	GGAAGACGAC	FIGTIGCGGAATC
EI .	61	71	81	91
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1751 TCTGGGCC	GGAAAGTTAC'	rcgaatcga.	ACA CGAGACA	AGACGAGAGAAT
5'	11	21	31	41
1801 GGTCTAAA	CTATGGTGTC	AGTTTTAATA	AGAACAAAAGT	TATGCATCTTGCC ATACGTAGAACGG
CCAGATTT(3A TACCACAG'.	I'CAAAAT''I'A'I	CTTGTTTTCA	YTA CGTAGAACGG
5'	61	71	81	91
<u> ምምረረረምምረን</u>				CCTTTCTCTCCT
1851 AACCGAACT	CGGAAAAGCA	AAAGTTACG	ACTGAAGAGG	GGAAAGAGAGGA
5'	11	21	31	41
1901 GTGCTCACC	TTACCTTTCC	AGAGTGTAA	GGGACAACTI	TTAAGGAGGCGT
CACGAGTGG	SAATGGAAAGG	FICTCACATI	CCCTGTTGAA	AATTCCTCCGCA

5		61	71	81	91
195	1 GTCCCTGGT CAGGGACCA	AGGGGCATCC TCCCCGTAGG	CTGTTCACCA GACAAGTGGT	GGTGCCTGTC CCACGGACAG	ATCACCCCACT TAGTGGGGTGA
5		11	21		41 -
200	¹ TGACTGACA ACTGACTGT	TCTACCCTGG AGATGGGACC	TGACTATGGG ACTGATACCC	TTCCTCTTGT AAGGAGAACA	TTGTAGGGAAC AACATCCCTTG
5 '		61	71	81	91
205	GGTGGCTCCI CCACCGAGG	AGGTGGAGGC ICCACCTCCG	ATCAATCTGT TAGTTAGACA	TGGGTTCTGG ACCCAAGACC	TTCCCGGCTGC AAGGGCCGACG
5 1		11	21	31	41 TGCATTTGCTT
210	CTTTGGTTT GAAACCAAA	rgaaagtete Aettteagag	TTCTCTGTAT. AAGAGACATA'	ATTCCTACCC TAAGGATGGG	TGCATTTGCTT ACGTAAACGAA
5'		61	71		91
215	TGTGTGGTGC ACACACCACC	CTGATGCTGT(SACTACGACA(GCGCAGCAGG CGCGTCGTCC	ATTCTTGGAT(LAAGAACCTA(GACTCTCCATC CTGAGAGGTAG
5'		1.1		31	
2201	AGTCACAGAC TCAGTGTCTG	TCCCCCTGTT AGGGGGACA	rgcaaagtgt(ACGTTTCACA(CAGGCTGACT(STCCGACTGA(CGACAGTCACC CTGTCAGTGG
5'		61	71	81	91
2251	GTAAAATCTG CATTTTAGAC	AGTCAGTCAC TCAGTCAGTC	CACACAGGCT(STGTGTCCGA(TCAGCCACGC CAGTCGGTGCC	CTTCCACTTG CGAAGGTGAAC
5'		11	21		41
2301	CATGGCTATT GTACCGATAA	CTATTTTCAC GATAAAAGTC	ACGTGAGTTT TGCACTCAA	CTGTTGCTGC GACAACGACC	CTGGCTGACT CGACCGACTGA
5 '		61	71	81	91
2351					GAGCCCATCA CTCGGGTAGT
-5 1		11	21	31	41 TGAACGTATT
2401	TTCTCACTGT AAGAGTGACA	CTTTGAAACA GAAACTTTGT	AAGCTGTACG TTCGACATGC	GTTTGATCGA CAAACTAGCT	TGAACGTATT ACTTGCATAA
5 1			71	81	91
2451	TAAAGCATTT (ATTTCGTAAA)	CATGCAATGA GTACGTTACT	CAAAGTGCTC GTTTCACGAG	AGTAGTGGAA TCATCACCTT	GGCAGGCTGT CCGTCCGACA
5 '		11	21	31	41
2501	GACCAGTCTG CTGGTCAGAC	CCTGCTCCTT. GGACGAGGAA	ACTATAATTG TGATATTAAC	TGAGGATTTG ACTCCTAAAC	TTACTGGAAC AATGACCTTG
5 '		51		81	91
2551	AGTACATGGA	GCCTGACCT'	TGTGGGGGCA	CAGGGTGGAA	CCTTAGCTGA

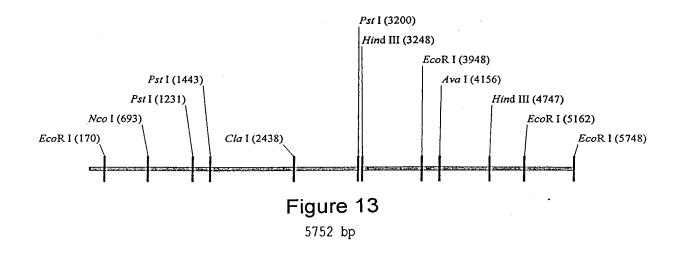
5 '		11	21	31	41
2601	ATATAGTGTG TATATCACAC	TGTCTCAAGA CACAGAGTTCT	AGGAAGTCAGO CCTTCAGTCO	GTACTAGCT(CCATGATCGA(CAGTGCTCAAT GTCACGAGTTA
5 '		61	71	81	91
2651	CTCCAGGTAC GAGGTCCATG	TATATATACA ATATATATGI	TTTGCCCGTT 'AAACGGGCAA	TTATCTCTA AATAGAGAT	ATGTGAAATAA FACACTTTATT
5 '		11	21	31	41
2701	ATCCCCAAAC TAGGGGTTTG	ACTTGTTTAT TGAACAAATA	CGTGTAGCGT GCACATCGCA	'ACCTAAAAG! \TGGATTTTC	ACTATTCTATT FGATAAGATAA
5 '		61	71	81	91
2751	ATGGGTGTCC TACCCACAGG	CCACTTTCTT GGTGAAAGAA	GGTTTGGTCA CCAAACCAGT	CCCCGATCCC GGGGCTAGGC	CCCGGTCTTCT GGCCAGAAGA
5'		11	21	31	41
2801	GCTGTATCTA CGACATAGAT	GAACAGTGAC CTTGTCACTG	TATAAATGAT ATATTTACTA	GTATGGGAAI CATACCCTTA	41 AGTGTTTCCA TCACAAAGGT
5'		61	71	81	91
2851	TATGATCTGT ATACTAGACA	TGTCTGGAGT. ACAGACCTCA	ATATGCTACA TATACGATGT	TGTTCATTTA ACAAGTAAAT	91 CTGTACAAAA 'GACATGTTTT
5'		11	21	31	41
. Market					TACAGTGCCC ATGTCACGGG
5'	•	61	71	81	91
					91 AACACTTAAC TTGTGAATTG
5,	3	11 :	21	31	41
3001	: ATAAGAACAA RATTCTTGTT	ACGCAGCGTC' IGCGTCGCAG	rggattettt Acctaagaaa	CCAAGGAGAG GGTTCCTCTC	CAGCTTTCTC GTCGAAAGAG
	-		71		91
3051	CACAGGAACA (STGTCCTTGT (AGTAACAAA <i>I</i> TCATTGTTT	AGAGGTCCGC(CCTCCAGGCG(CGCCATCCAC GCGGTAGGTG	ACCCAGCCAA TGGGTCGGTT
5 '				<i>-</i> —	41
3101	SACACCTCAGA CTGTGGAGTCT	GGCCATAGG CCGGTATCC	BACAACCTCC' CTGTTGGAGG	TTGCTGGCCA. AACGACCGGT	ACACCTGCTG TGTGGACGAC
5 '				· — ·	91
3151 ^G	AGCAGGGCA TCGTCCCGT	CAGGTCCCAG GTCCAGGGTC	CAACTGATC (GTTGACTAG (CTCAGTGGAT(SAGTCACCTA	GGTCTGCAG CCCAGACGTC
5 '	1				11
3201 C	CAAAGCCTTA	ATGGGCTCTC	TTTTGAAGGG	GAAAGAAAG CTTTCTTTC	AATTTCAAGC





	5 '	61	71	81	91
	4553	CATTCAGTTTCTCGT GTAAGTCAAAGAGCA	ACTCCTCCATO	TCAAAGTCAC	TGACACACTCATCO
	4337	GTAAGTCAAAGAGCA	TGAGGAGGTA	CAGTTTCAGTG	ACTGTGTGAGTAG(
		7.7	0.7	2.1	4.7
	5 '		21	31	41 .
	4601	TCATTGGTGTAGGAA AGTAACCACATCCTT	AGCIGCICIII TCCACCACAAA	GGTAATCAGT	TCCTTTAGCCAGGA
		AGIAACCACAICCII	I COMC GAGAAL	CCALIAGICA	AGGAAAI CGGICCI
	5 '	61	71	81	91
		GATTGTTTTGTTCAC CTAACAAAACAAGTG	ACTGT CTACCO	CTGAACCACA	TACCTGGAAAACTG
	4651	CTAACAAAACAAGTG	TGACAGATGGG	GACTTGGTGT	ATGGACCTTTTGAC
	5 '	11	21		41
	4701	TGTGCTCTATTTTCT ACACGAGATAAAGA	TTTCCAAAACC	AGGGTGTTCT	TTTTGGGGGAAGCT
200	 -	ACACGAGATAAAAGA	AAAGG T"I"I"I'GG	TCCCACAAGA	AAAA CCCCCTTCGA
	5'	61	71	81	91
	3				
1	4751	TGCTTGGGAAAGCCA ACGAACCCTTTCGGT	######################################	ℋℊℋℊℋℋℋℋℋ ℋℳℋℋℋℋℋℋ	CTTT AATGITIC
122	1000	Accumicaci i i coci		1010111110	
-	5'	11	21	31	41
100	i 1	TTTTACTCCCTTCAA	CATCAAGGTTA	GGAA TATGTA'	ITTCATAAAAGCTA
ri V	- 4801	AAAATGAGGGAAGTT	GTAGT TCCAAT	CCTTATACAT	AAAG TATTTTCGAT
	P. State				
-	5'	61 ACAACTCACAGGCAA	71	81	91
-	4851	ACAACTCACAGGCAA'	CTTAGACATC	ACTGACTGCT'	rggcaggcgactgc
	7, 40 7, 40 1, 40	TGTTGAGTGT CCGTT	AGAAT CTGTAG	TGAC TGACGAZ	ACCGTCCGCTGACG
	5'	11	21	31	41
-	The state of the s	TTCCCCCCCACCTCCAC	┇ ݿᢗݵᢗᡊ᠇ᡎᡎᢕᡎᢗ᠇ᡎ	ᡗᡀ᠘ᡀᡙᡙ᠘ᡀᢗᢋ ᠘ᡓ᠘	┍╨ ┍ ╩╙┍╩╙┚╻╻╻╻
	4901	11 TTGGGGGGAG CTGGAC AACCCCCCTCGACCTC	TCGGAAGAGA	AAGA AAGTACA	ACAGCATTTTTT
	5'	61 TTGCAGAATATGGGGC AACGTCTTATACCCCG	71	81	91
	4051	TTGCAGAATA TGGGGC	TGGAAGATAA	CAACTTTAACT	CTCTTCACAGCCT
	4951	AACGTCTTATACCCCG	ACCTTCTATT(STTGAAATTGA	AGAGAAGTGTCGGA
			0.7	2.7	4 11
	5 '	11	21	31	41
	5001	GCACTGATTTTTTCTG CGTGACTAAAAAAAGAC	GACAAATTCT	CAATGGCATC	TATTATCGCTTTT
	,	GIGACIAAAAAAGAC	CIGITIAAGAA	GIIACCGIAC	MIAAIAGCGAAAA
	5 '	61	71	81	91
	5051	GCTACTACGTTTGGGT CGATGATGCAAACCCA	GGACAACTCGT	'AAAGGAAGTT	TTTGTTTTTTCG
				,	
	5'	11	21	31	41
	5101	ACATTTTTAAAAAGTC TGTAAAAATTTTTCAG	AAGG TTAAGA I	CCA CCTGCAA	AAAAAGCTGCAA
	2101	GTAAAAATTTTTCAG	TTCCAATTCTA	GGT GGACGTT	TTTTTTCGACGTT
	- .		57.	0.4	0.0
	5'	61	71	81	91
	5151	'ATAAGCGAGGAATTC' TATTCGCTCCTTAAG	TAGTTGTCACA	GGAAATAAAA	ATGTCTGTTCCCA

	5 '	:	11	21	31	41
	5201	CTATAATCAA! GATATTAGTT	TGTAGACTG ACATCTGAC	TATTATAATA ATAATAATAAT	GCCAGCAAAT. .CGGTCGTTTA	AGTTTTGAAGT TCAAAACTTC!
	5 '		51	71	81	91 :
	5251	CCTAGGCACA (GGATCCGTGT (TGGGAGGA CACCCTCCT	GGTTTTGTTC CCAAAACAAG	CACGCTGTTC GTGCGACAAG'	ATAAGCCAATA FATTCGGTTAT
	5 '		.1	21	31	41
	5301	CCCCAGCAAA? GGGGTCGTTTT	GACCTTAAA CTGGAATTI	AGGACAACTT CCTGTTGAA	GTAATTTGGGA CATTAAACCC	ACATTCACATO FGTAAGTGTAG
	5'	6	1	71	81	91
	5351	TGTCCTCTTCA ACAGGAGAAGT	TCTGATCTG AGACTAGAC	GCTCCCAGT CGAGGGTCA	GTCACTCTCT/ CAGTGAGAGAT	AACACGGTCCT TTGTGCCAGGA
		1	1	21	31	41
	5401	TAGAGGGACAA ATCTCCCTGTT	TTTATCCCT AAATAGGGA	'GCCTCTGCT' .CGGAGACGA!	rGATCTTATGO ACTAGAATACO	ATGTATCTGT TACATAGACA
	5 '	6	1	71	81	91
	5451	ATTCTTCCAGC FAAGAAGGTCG	CATCCCTGG GTAGGGACC	CGACCTGATT GCTGGACTAI	TTTCTAAGGC AAAAGATTCCG	ACCCAAAACT TGGGTTTTGA
	5 '	1:	1	21	31	41
-3	5501	1: TAAGCTACTTC CATTCGATGAA	CTTATAATC GAATATTAG	TATAATTCTO ATATTAAGAO	AGCATATTAG TCGTATAATC	TTAGCCTGAG AATCGGACTC
	5'	6:	L	71 ·	81	91
	5551	CCTCCAGGATA: GAGGTCCTATA	CTTTCTTC AGAAAGAAG	CCTATACTCA GGATATGAGT	.GTCCAGTTTT 'CAGGTCAAAA	AGCTGCCCAG TCGACGGGTC
	5 '	11	L :	21	31	41
	5601 ⁷	11 AAGGATTCAAAG TCCTAAGTTTC	GACTAGAT CGACTAGAT	CGAGTAGATC GCTCATCTAG	ACTCCTGTCT TGAGGACAGA	ACAGCTTGTT TGTCGAACAA
	5 '	61		71	81	91
	5651 ^C	61 CAGATCTTGTT: GTCTAGAACAA	TCTCAAGC (AGAGTTCG (CCTGGAAGCC FGACCTTCGG	ATCAGCCAGG TAGTCGGTCC	TAAGATTGTA ATTCTAACAT
	5 '	11				41
	5701 A	AACAATCCCTT TTGTTAGGGAA	TCTAATCAT AGATTAGTA	CGGTGTGGC ACCCACACCG	CCAAAGTGAA GGTTTCACTT	TGGCCGGAAT ACCGGCCTTA
	5 '	61	7	1	81	91
!	5 751 A					



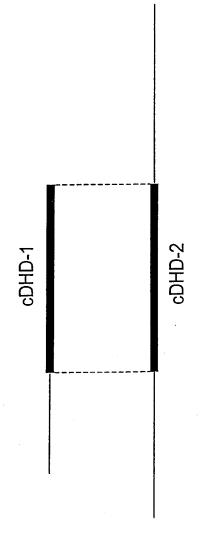
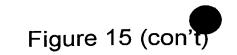


Figure 14

Figure 15

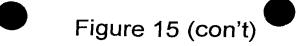
	1	CGCCCGGGC.	A GGTCTGTTG	G AGGGCAGTTO	GTCAACCTGA	CCAGAGAGAG	CTGAGCTGGA
		GCGGGCCCG	T CCAGACAAC	C TCCCGTCAAC	CAGTTGGACT	GGTCTCTCTC	GACTCGACCT
•	61	AGACCCCAC	T GATGGTGTG	C TGCCTTTCAG	TCCAGGAAGA	AAGAAAGGAA	GGATTCTGAG
		TCTGGGGTG	A CTACCACAC	G ACGGAAAGTC	AGGTCCTTCT	TTCTTTCCTT	CCTAAGACTC
	121	GATTTGGGC	A AAGCCACAT	T CCTGGAGAAG	TCTGTATACT	GATGCCAAAC	CCAAGAGCTG
		CTAAACCCG'	T TTCGGTGTA	A GGACCTCTTC	AGACATATGA	CTACGGTTTG	GGTTCTCGAC
•	181	AGCTGCTGA	T GAGGCCCAG	G GAGTAGCCCA	CGCGCCCTGA	GCTGTTGGCT	AGCAAGGCCT
		TCGACGACTA	A CTCCGGGTC	C CTCATCGGGT	GCGCGGGACT	CGACAACCGA	TCGTTCCGGA
	241	TCCTGCTCC	A TGTGGCATG	ATATTAAAAA E	TGGTTTGACG	GATGAAAAGG	TGAAGGCCTA
			r ACACCGTÁC		ACCAAACTGC		ACTTCCGGAT
	301	TCTTTCTCTC	CATCCCAG	G TATTAGATGA	ATTTGTTTCT	GAAAGTGTTA	GTGCAGAGAC
		AGAAAGAGAG	GTAGGGGTC	ATAATCTACT	TAAACAAAGA	CTTTCACAAT	CACGTCTCTG
	361	TGTGGAAAA	G TGGCTGAAGA	GGAAAACCAA	CAAAGCAAAA	GATGAACCAT	CTCCCAAGGA
					GTTTCGTTTT	CTACTTGGTA	GAGGGTTCCT
	421	AGTCAGCAGO			GGGAGTCGTG	TACGAGCTGA	ACAGCTACAT
					CCCTCAGCAC	ATGCTCGACT	TGTCGATGTA
	481	AGAGCAGCGC		GCGGGGACAA		CTCTATGAGC	TCAGCAGCAT
	101				GGTGGACGAG	GAGATACTCG	AGTCGTCGTA
	541	CATCAGGATA		CCGACGGATT		TTCCTTGGAG	AGTGCAATAA
	311	GTAGTCCTAT			ACGTGACATG	AAGGAACCTC	TCACGTTATT
	601	TAGCCTGTGT		CACCCGGGAT		CAACCCCGGC	TCATCCCTGC
	001			GTGGGCCCTA		GTTGGGGCCG	
• • • •	661				TGCCTACGTG	GCCAAGTCTA	GGAAGACGTT
	001	TCCCGGGTAG			ACGGATGCAC		CCTTCTGCAA
			EcoRV		Xhol		
	721	GTTGGTAGAG	GATATCCTTG	GGGATGAGCG	ATTTCCTCGA		TGGAATCAGG
	121		CTATAGGAAC		TAAAGGAGCT	CCATGACCGG	ACCTTAGTCC
	781	AACCCGCATC			CATTGTCACT	GCCATTGGAG	ACTTGATTGG
	,01		GTCAGACAAG		GTAACAGTGA	CGGTAACCTC	TGAACTAACC
	841	CATCCTTGAA	CTGTACAGGC	ACTGGGGCAA	AGAGGCCTTC	TGCCTCAGCC	ATCAGGAGGT
	011		GACATGTCCG		TCTCCGGAAG	ACGGAGTCGG	TAGTCCTCCA
	901	TGCAACAGCC	AATCTTGCTT	GGGCTTCCGT	AGCAATACAC	CAGGTGCAGG	TGTGTAGAGG
	701		TTAGAACGAA		TCGTTATGTG	GTCCACGTCC	ACACATCTCC
	961	TCTCGCCAAA	CAGACCGAAC	TGAATGACTT	CCTACTCGAC	GTATCAAAGA	CATACTTTGA
	701		GTCTGGCTTG		GGATGAGCTG		
	1021				ACACATCATG	ATATATGCAA	AAAATCTAGT
	1021				TGTGTAGTAC		
	1001				GGACCACAAG		
	1081				CCTGGTGTTC		
	1141				GAAGCCCATC		
	1141				CTTCGGGTAG		
	1201		 		TCAAGTGGCA		
	1201				AGTTCACCGT		
	1261				TAACAGGGAG		
	1261				ATTGTCCCTC		
	1201				AGTGAGCCGA		
	1321				TCACTCGGCT		



138	1 GCAGATGGTG AACAAGATCA GCGGTAGCGC CTTCTCCAAG ACAGACGAGA ACAACTTCAA
	CGTCTACCAC TTGTTCTAGT CGCCATCGCG GAAGAGGTTC TGTCTGCTCT TGTTGAAGTT
	BamHI
144	GATGTTTGCT GTCTTCTGCG CACTGGCCTT GCACTGTGCT AACATGTACC ACAGGATCCG
	CTACAAACGA CAGAAGACGC GTGACCGGAA CGTGACACGA TTGTACATGG TGTCCTAGGC
	HindIII
1501	CCACTCAGAA TGCATCTACA GGGTTACCAT GGAGAAGCTT TCCTACCACA GCATCTGCAC
	GGTGAGTCTT ACGTAGATGT CCCAATGGTA CCTCTTCGAA AGGATGGTGT CGTAGACGTG
1561	CECCCACCAC ECCCALCOCC MCAMCCCCOME CALCOCACACACACACACACACACACACACACACACACAC
1001	GAGGCTCCTC ACCGTTCCGG AGTACGCGAA GTTGGATGGT CGTGCGTAGA CGGCCCTGTA
1621	OCACCIONATION CONTROLLER CONTROLL
1021	COMOGNATION TO THE PROPERTY OF
1601	CARCARCOAR COORDINATE CONTROL
1681	CENTRE COMPANY CONTRACTOR CONTRAC
	GTACTAGGTA GCCAGAACAC CCTGTAGGAC AAAACTTGAA CTTTTTAACA CGGCAAAATA
1741	Constitution of the control of the c
	GTACAGACAC TTCTTCTTGA TAGCCGCCCA AGGAATGGTG TTGACCTTCG TACGTCAGTG
	Xhol
1801	GGTGGCACAC TGCATGTATG CCATACTTCA AAACAACAAT GGCCTCTTCA CAGACCTCGA
	CCACCGTGTG ACGTACATAC GGTATGAAGT TTTGTTGTTA CCGGAGAAGT GTCTGGAGCT
	Xhol ∼
1861	GCGCAAAGGC CTGCTAATTG CGTGTCTGTG CCATGACCTG GACCACAGGG GCTTCAGTAA
	CGCGTTTCCG GACGATTAAC GCACAGACAC GGTACTGGAC CTGGTGTCCC CGAAGTCATT
1921	CAGCTACCTG CAGAAGTTCG ACCACCCCT GGCGGCGCTG TACTCCACCT CCACCATGGA
	GTCGATGGAC GTCTTCAAGC TGGTGGGGGA CCGCCGCGAC ATGAGGTGGA GGTGGTACCT
1981	GCAACACCAC TTCTCCCAGA CGGTGTCCAT CCTTCAGCTG GAAGGGCACA ATATCTTCTC
	CGTTGTGGTG AAGAGGGTCT GCCACAGGTA GGAAGTCGAC CTTCCCGTGT TATAGAAGAG
2041	CACCCTGAGC TCCAGCGAGT ACGAGCAGGT GCTGGAGATC ATCCGCAAAG CCATCATCGC
	GTGGGACTCG AGGTCGCTCA TGCTCGTCCA CGACCTCTAG TAGGCGTTTC GGTAGTAGCG
2101	CACCGACCTC GCCCTATACT TTGGGAACAG GAAGCAGTTG GAGGAGATGT ACCAGACAGG
	GTGGCTGGAG CGGGATATGA AACCCTTGTC CTTCGTCAAC CTCCTCTACA TGGTCTGTCC
2161	GTCGCTGAAC CTCCACAACC AGTCCCATCG AGACCGTGTC ATCGGCTTGA TGATGACTGC
	CAGCGACTTG GAGGTGTTGG TCAGGGTAGC TCTGGCACAG TAGCCGAACT ACTACTGACG
2221	CTGTGATCTT TGCTCTGTGA CCAAACTATG GCCAGTTACA AAATTGACAG CGAATGATAT
2221	GACACTAGAA ACGAGACACT GGTTTGATAC CGGTCAATGT TTTAACTGTC GCTTACTATA
	EcoRI
2281	ATATGCAGAA TTCTGGGCTG AGGGTGATGA GATGAAGAAG CTGGGCATAC AGCCCATTCC
2201	TATACGTCTT AAGACCCGAC TCCCACTACT CTACTTCTTC GACCCGTATG TCGGGTAAGG
2241	TATGATGGAC AGAGACAAGC GAGATGAAGT CCCTCAAGGG CAGCTCGGAT TCTACAATGC
2341	ATACTACCTG TCTCTGTTCG CTCTACTTCA GGGAGTTCCC GTCGAGCCTA AGATGTTACG
0.4.0.1	
2401	TGTGGCCATT CCCTGCTATA CCACCTTGAC GCAGATCCTC CCACCCACAG AGCCTCTGCT
	ACACCGGTAA GGGACGATAT GGTGGAACTG CGTCTAGGAG GGTGGGTGTC TCGGAGACGA
2461	GAAGGCCTGC AGGGATAACC TCAATCAGTG GGAGAAGGTA ATTCGCGGGG AAGAGACAGC
	CTTCCGGACG TCCCTATTGG AGTTAGTCAC CCTCTTCCAT TAAGCGCCCC TTCTCTGTCG
2521	AATGTGGATT TCAGGCCCAG GCCCGGCGCC TAGCAAGAGC ACACCTGAGA AGCTGAACGT
	TTACACCTAA AGTCCGGGTC CGGGCCGCGG ATCGTTCTCG TGTGGACTCT TCGACTTGCA
2581	GAAGGTTGAA GACTGATCCT GAAGTGACGT CCTGATGTCT GCCCAGCAAC CGACTCAACC
	CTTCCAACTT CTGACTAGGA CTTCACTGCA GGACTACAGA CGGGTCGTTG GCTGAGTTGG
2641	TGCTTCTGTG ACTTCGTTCT TTTTGTTTTC AAGGGGTGAA AACCCCCTGT CAGAAGGTAC
	ACGAAGACAC TGAAGCAAGA AAAACAAAAG TTCCCCACTT TTGGGGGGACA GTCTTCCATG

Figure 15 (con't)

GCAGCGTATA GCTACACTTC GTCTGCTGAG GGACGAAGGG CGTGTGTGGA GCCTGTCACT 2761 GCAACCCAGG CTTGGCGGTG TTCAGACGTC GGGTACTCCG TGGCTCCACC TGACCTCGGA CGTTGGGTC GAGACGGCAC AGTCTGCAC TGCTGAGGC ACCGAGGTGG ACTGGAGGCT ACCGATANAC GAGGGTCGC ACCACTGCAC TGTCTGGAGG GGGCAGAGAC CACAGGAGGC TACCGATANAC GAGGGTCGC ACCACTGCAC CCGTCTCTC GTTTCCTCTC CAAGAACGGA CGTAGGAGG TACTCCCACA CCGGTCAAGG GACAGACAC CACAGGAGGC CAAGAACGGA CGTAGGAGGG TACTCCCACA CCGGTCAAGG GATCAAGACA CGGTACGAC 2941 TCCTTGGTGG CATTGGTTAG GAATGGGACA CACGCCCTT GTTGTGAAGA CGGTACGAC ACGAACCAC GTAACCAATC CTTACCCTGT GTCCGGGGAA ACGAACACAC GTAACCAATC CTTACCCTGT GTCCGGGGAA ACGAACACAC GTAACCAATC CTTACCCTGT GTCCGGGGAA ACGAACACAC GTAACCAATC CTTACCCTGT GTCCGGGGAA ACGAACACAC GTAACCAACAC CTGTTGATTA CACGCTGTTAC AATGAAGCT CACAGTCCAC GGAAGAATAT CCAAATCACAA CTGTTGATTA CACGGTGACAC AACACTTCA AATGACCCC TCACACTGTCT CTTTAGGTTT GACAACTAAT GTCCACGTGA TACCACTACA GAAAGTCAG 3121 TATCTGGGG CACATAGGTG AGTCTGCCC ACCAGGAAAAAAAAAA	2701	CGTCGCATAT CCATGTGAAG	CAGACGACTO			CGGACAGTGA
2821 ATCCTATTTE CTCCCAGGCA CACACTGCAG CCGATGAGGC ACCAGGAGGAGAGAGAGAGAGAGAGAGAGAGAGA		GCAGCGTATA GGTACACTTC	GTCTGCTGAG	GGACGAACGG	CGTGTGTGGA	GCCTGTCACT
ATGCTATTTE CTCCCAGGC AGCACTGCAC TGTCTGCAGG GGGCAGAGAC CACAGGAGAG TACGATARAC GAGGGTCCG TCGTGACGT ACAGACTC CCGGTCTCTC GTGTCCTCTCC CAGAACACGC GAACCACC ATGAGGAGG TACAGACTTC CCGGTCTCTC GCATCTCTCC CAAGAACGCA CGATGGTAGC 2941 TGCTTGGTG CATTGGTTAG GAATGGGACA CCGGTCAAGG GATCAGACAC CGGTACAGG ACGAACCACC GTAACCAATC CTTACCCTGT GTGCGGGGGA CAACACTCCA AATGTACACT ACGAACCACC GTAACCAATC CTTACCCTGT GTGCGGGGGAA CAACACTTCA AATGTACACT 3001 CCTTCTTATA GGTTAACTGA GTTGGTCT GTGCGGGGGAA CAACACTTCA AATGTACACT GGAAGAATAT CCAATTGACT CAACACCGG ACCTGTTGTAC ATTACTTCCA GTGTCAGGTG AGGGGACGAC GAAATCCAAA CTGTTGATTA CAGGTGCACT AATGACTCCAC GGAAGAATAT CCAATTGACT CAACACCCGG ACCTGTGTAC ATTACTTCCA GTGTCAGGTG TCCACTGTC CTTTAGGTTT GACACACACCGG ACCTGTCTAC ATTACTTCCA GTGTCAGGTG ATGAGCCCC GTGTATCCAC TCACACCAGG TCACACATCA ATTACTTCCA GTGTCAGGTG ATGAGCCCC GTGTATCCAC TCACACCAGG TGAGTCTTNN TTGGTATGGA GACAGGGAGTA ATGAGCCCCC GTGTATCCAC TCACACCAGG TGAGTCTNN TTGGTATGGA GACAGGGAGTA 3181 CCACGGGGAC ACAGGTGAT CCCAGGCATC GAGGGTACTA AGGTCCACTAC TCAAACCATG GGTCCCCTGT GTCCCATGTA GGGTCCGTAG CCCCTTGACT TCGAGAGGTGA AGTTTGGTAC 3241 TCAAAGAATT AAAACACCTC CCCTCCCCCT CACTGTACT TCGAGAGGTGA AGTTTGGTAG 3301 CTTTATACAA AGAAAATAAAA AGTAAGGCAA TATAATTTCC TCCAGCAACT AGCGCAATCC AGTTTCTTA TTTTTGTGGAG GGGAGGGGG AGGACTGA AGCTGTTAC AGCGCAATCC AGTTTTTATT TTTTTTTTTT TCATTCCGTA TATTTAAAATTTCC TCCAGCAACC AACATCTGAACCATC CAATTTTTT TTCGTGCAG ATNNTAACAA CNTCTANANT NTCNCNGNAT GTTATGGCAG CAATTTTTTT TTCGTGCACT TANNATATTTC TCCAGCAACT GACAAATCTGTC TTAAAAAAAA AAGCAGTGTA ATNNTAACAA CNTCTANANT NTCNCNGNAT GTTATGCCAG CACTTTTTTT TTTGGTACAC TANNATATTTT TCATTCCAGTA GAAAAAGATT ATACGGTCT TANAAATTTCC TCCAGCAACC ATACATCCGCACC AGGCAGGAC AGCAGAGGAG CCCTCCCCCCC AGCGTTTCAT CCACAGGAG TCCCTCTCC AGGCTCCCCT TCCAGCGTCCCCCCCCCCCCCCCCCCCCC	2761					
TACGATARAC GAGGGTCCG TCGTGACGTG ACAGACCTCC CCCGTCTCTG GTGTCCTCC CARGAGACGGA CCTACGAGGG TACTCCCACA CCGGTCAAGG GATCARGACA CGGTACGTGC CAAGAACGGA CCTAGAGAGG TACTCCCACA CCGGTCAAGG GATCARGACA CGGTACCAAGC 2941 TGCTTGTGG CATTGGTTAG GAATGGACA CACACCTCT ATTGTACACT ACGAACCAC GTAACCAATC CTTACCCTGT GTGCGGGGGA CACACACTTCA ATTGACCACACACACACACACACACACCACCACACACACCACC						
2881 GTTCTTGCCT GCATCCTCC ATGAGGGTGT GGCCAGTTCC CTAGTTCTGT GCCATGCTGC CAAGAACGAC CGTAGGAGG TACTCCCACA CCGGTCAAGG ACCACCACC CATGAGAGGG TACTCCCACA CCGGTCAAGG ACCACCACC GTAACCAATC CTTACCCTGT GTGCGGGGAA CAACACTTCA AATGTACACT 3001 CCTTCTTATA GGTTAACTCA GTTTGTGGCC TGGACACATC TAATGAGGT CACAGTCCAC GGAAGAATAT CCAATTGACT CAAACACCGG ACCTGTGTAC ATTACTACGTGT AGGTGACGAG GAAATCCAAA CTGTTGTGTCC TGGACACAT TAATGAGGT CACAGTCCAC GGAAGAATAT CCAATTGACT CAAACACCGG ACCTGTGTAC ATTACTACAG TCCACTGTCAC TCCACTGTCT CTTTAGGTT GACAACTAAT GTCCACGTGTAC ATTACCATACG AGAAAGTCAG TAATGACCCCC GTGTATCCAC TCAACACCGG ACCTGTGTAC ATTACCATACG AGAAAGTCAG TATACGGGGG CACATAGGTG AGTCTGCTC ACTCAGAANN AAGCATACCT CTGCCCTCAT ATAGACCCCC GTGTATCCAC TCAGACGAG TGAGTCTTNN TTCGTATGGA GACGGGAGTA AGGTCCCCTG GTCCCATGTA GGGTCCGCTC ACTCAGAANN AAGCATACCT CTACCCACAGA CCAGGGGACA CAGGGTACAT CCCAGGCATC GGGGAACTGA AGCTCTCACT TCAAACACATT GGTCCCCTGT GTCCCATGTA GGGTCCGTAG CCCCTTGACT TCGACAGAGTA AGTTTGGTAC GGTCCCCTG GTCCCATGTA GGGTCCGCTA CCCCTTGACT TCGACAAGTGA AGTTTGGTAC AAGAATAT AAAACACCCT CCCTCCCCCT CACTGTAGCC TTCGACAAGTGA AGTTTGGTAC AGTTTCTTAA TATTTGTGGAG GGGAGGGGG GTGACATCG AAGCTGTTGA CGCGGTTAGG CCATTTTTTT TAAATATAA AGTAAAGCATA TAAAATTCC TCCAGCAAGA CAAATACTT CAAAGAATT TTTTTTTTTTTTTTTTTCATTCCGTA TATTTAAAGA AGGGTGGTTC GTTTAGAACAC CCATTTTTTT TTCGTACACT TANNATTGTT GAAAATATAT TTTTTTTATT TCATTCCGTA TATTTAAAGA GAGTCGTTCC TTTAGAACAC CCATTTTTTTT TTCCTACACT TANNATTGTT GAAAATATAT TTCCTTCCTACAT TANNATTGTT TTCCAGAGGT TCCTCCCA GGCTTCCCA GGGTTCTCCT CAGGTCCTC TATGCCTCGA TTCCAGAGGT TCGTACCCCA GGCAGGGGC TACCCAGACTA GACCCAGACTA AGGCTCCAC AGCATGGCGT CCGTCCCCA GGGTTCTCCT ACGGTCCTC CAGGGTCCG TTCCAGCGCT CCGTCCCC GACGCCCG ATGCTTCCCA GGCAGAGGA GACACCCTCA AAGGTCTCTC TCGTCCCCA GGCAGGGGC TCCAGACATA GCCAGAGGA GACACCCTCA AAGGTCTCCTC TCGTCCCA GGCAGGGGC TCCAGACACTA GCCAGAGGA GACACCCTCA AAGATCCTTC CCGACGCCC GCAGAGGGG TCCCAGACACT GCCAGACACT CAGGCAGGAG CCCCATTACAGACC CTAAAAGTCC TATCCGAAA AGACAGAGAT CCGTCCTCC AGGCACCACCACA 3601 CACCATTCAG AAGCACAC TAACCAGAAA AGACAGAGAT CCGTCCTCC AGGCCACCACACACTA AAGACTCTCTC TCGGGCA	2821					
CAAGAACGGA CGTAGGAGG TACTCCCACA CCGGTCAAGG GATCAAGACA CGGTACGAC 2941 TGCTTGGTGG CATTGGTTAG GAATGGGACA CACGCCCCTT GTTGTGAAGT TTACATGTGA ACGAACCACC CGTAACCAATC CTTACCCTGT GTGGGGGAA CAACACTTCA AATGTACACT 3001 CCTTCTTATA GGTTAACTGA GTTTGTGGCC TGGACACATG TAATGAAGGT CACAGGTCCAC GGAAGAATAT CCAATGACT CTTACGCTGT GTGGGGGAA CAACACTTCA AATGTACCAC GGAAGAATAT CCAATGACT CAAACACCGG ACCTGTGTAC ATTACTTCCA GTGTCAGGTG CTCACTGTCT CTTTAGGTTT GACAACACCGG ACCTGTGTAC ATTACTTCCA GTGTCAGGTG TCCACTGTCT CTTTAGGTTT GACAACTAAT GTCCACGTGAT TACAGGTATAC CTCTTCAGTC TCCACTGTCT CTTTAGGTTT GACAACTAAT GTCCACTGAT ATTACTTCCA GAGAAGTCAG 3121 TATCTGGGGG CACATAGGTG AGTCTGCCC ACTCACAANN AAGCATACCT CTGCCCTCAT ATAGACCCCC GTGTATCCAC TCAGACGAGG TGAGTCTTNN TTCGTATGGA AGCAGGGAGTA GCACCCCTGT GTCCCATGTA GGGTCCCAC GGGGAACTGA AGCTCTCACT TCAAACCATG GGTCCCCTGT GTCCCATGTA GGGTCCGTGA CCCCTTGACT TCGACAGGTGA AGTTTGGTAC AGTTTCTTAA TATTTTGGGAG GGGGGGGGGGA GTGACATCC ACCTGTAGCC TTCCAACACTAGCAATCC AGTTTCTTAA TATTTTTGGAG GGGAGGGGGA GTGACATCG AAGCTGTTGA CGCGGATACC AGTTTCTTAA TTTTTTTTTTTTTTTTTTTTTTTTTTTTT						
1941 TGCTTGGTGG CATTGGTTAG GAATGGGACA CACGCCCCTT GTTGTGAAGT TTACATGTGA ACGAACCACC GTAACCAATC CTTACCCTGT GTGCGGGGAA CAACACTTCA AATGTACACT GGAAGAATAT GGTTAACTGA GTTTGTGGCC TGGACACATG TAATGAAGGT CACAGTCCAC GGAAGAATAT CCAATTGACT CAAACACCGG ACCTGTGTAC ATTACTCCA GTGTCAGGTG 3061 AGGTGACAGA GAAATCCAAA CTGTTGATTA CAGGTGCACT ACAGGTATGC TCTTTCAGTC TCCACTGTCT CTTTAGGTTT GACAACTAAT GTCCACGGA TGTCCATACG AGAAAGCCG TCCACTGTCT CTTTAGGTT GACAACTAAT GTCCACGGA TGTCCATACG AGAAAGCCG ATTACTGCGGG CACATAGGTG AGTCGACCA ACTGCTATA ATACGACCCC GTGTATCCA CCAGGCATC GGGAACTGA AGCTCACCT TCAACCATG GGTCCCCTGT GTCCCATGTA GGGTCCCTTGCAC TGCGAGATGA AGCTTCACT TCAAACCATG GGTCCCCTGT GTCCCATGTA GGGTCCCTTGACT TCGAGAGTGA AGCTTCACT TCAAACCATG GGTCCCCTGT GTCCCATGTA GGGTCCCTTGACT TCGAGAGTGA AGCTTCTACT TCAAACCATG GGTCCCCTGT GTCCCATGTA GGGTCCCTTGACT TCGAGAGTGA AGCTTCACT TCAAACCATG GGTCCCCTGT GTCCCATGTA GGGTCCCTTGACT TCGAGAGTGA AGCTTCTACT AGTTCTTAA TTTTGTGGAG GGGAGGGGGA GTGACATCG AGCTTCACT TCGACAACC ACTTTATCAA AGAAAATAAA AGAAAATAAA ATCCGTC AAAAATAAAA ACCAACCAC ACAACAAAAAAAAAA	2881					
ACGAACCACC GTAACCAATC CTTACCCTGT GTGCGGGGAA CAACACTTCA AATGTACACT 3001 CCTTCTTATA GGTTAACTGA GTTTGTGGCC TGGAACACATG TAATGAAGGT CAACAGTCCAC GGAAGAATAT CCAATTGACT CAAACACCGG ACCTGTGTAC ATTACTTCCA GTGTCAGGTG 3061 AGGTGACAGA GAAATCCAAA CTGTTGATTA CAGGTGCACT ACAGGTATGC TCTTCAGTC TCCACTGTC CTTTAGGTTT GACAACATAT GTCCACGTG TGCAATACC ACAAAGTCAG 3121 TATCTGGGGG CACATAGGTA AGTCTGCTCC ACTCAGANN AAGCATACCT ACAGGAGTA ATAGACCCCC GTGTATCCAC TCAGACGAGG TGAGTCTNN TTCGTATGGA ACAGGAGTA GGTCCCCTGT GTCCCATGTA GGGTCCGTAG CCCCTTCACT TCGAGAGGA AGTTTGGTAC GGTCCCCTGT GTCCCATGTA GGGTCCGTAG CCCCTTCACT TCGAGAGGA AGTTTGGTAC 3241 TCAAAGAATT AAAACACCTC CCCTCCCCCT CACTGTAGC TCCACAGAGGA AGTTTGGTAC AGTTTCTTAA TTTTGTGGAG GGGAGGGGGA GTGACATCG AAGCTCTAA CGCGCCATCC AGTTTCTTAA TTTTGTGGAG GGGAGGGGGA GTGACATCG AAGCTGTAG CGCGCATACC GGAAAAAAAA AAGAACTAT TCATTCCGTA TATTTAAAGG AGGTGGTACACCG GAAATATGTT TCTTTTATTT TCATTCCGTA TATTTAAAGA AGGATCTAG CACACCTGAACC AAAACCCTC CCATTTTTTT TTCGTACACT TANNATTGTT GNAGATNNN NTCNCNSNAT GTTATGGCAG CCATTTTTTT TTCGTACACT TANNATTGTT GNAGATNNN NTCNCNSNAT GTTATGGCAG CCATTTTTTT TCGTACACT TANNATTGTT GNAGATNNN NTCNCNSNAT GTTATGGCAG TTAAAAACAG TGCAGGGTT CGTTTCCCAC GGGTTCTGAT TATGCCTGA TATACCCTCC ATAACCCGAC AGCATGGCGT CCGTCTCCCA GGGTTCTGAT CAGGAGGAGGAG TCCCACGGACT TTCCGAGGGT TCGTACCGCA GGCAGAGGGT CCCAAGGACT AGCACACCAC AGCATGGCGT CCGTCTCCCA GGGTTCTGAT CAGGAGGAGGAG 361 CACCATTCAG ACACCACACA GGCAGAGGGT CCCAAGGACTA GCCAGAGGAG TCCCACGGACT TTCCGAGGGA AGAAGAGAGA GCCAGAGGGT CCCAAGACACTA GCCAGAGGGAG TCCCACGGAC 3781 AAGGCTCCA AGCATGGCGT CCGTCCCCA AGGATGAGACT AGCCACAGGAG TCCCACAGAGACTA CTTAACGAGA GCAAGGAGAGAG CCCTTACGGAGGAG TCCCACAGAGGAACC CCTACAAGGACACCCTTACAGGACACCACCACACCA						
CCTTCTTATA GGTTAACTGA GTTTGTGGCC TGGACACATG TAATGAAGGT CACAGTCCAC GGAAGAATAT CCAATTGACT CAAACACCGG ACCTGTGTAC ATTACTTCCA GTGTCAGGTG 3061 AGGTGACAGA GAAATCCAAA CTGTTGATTA CAGGTGCACT ACAGGTACCT TCTTTAGGTT TCCACTGTCT CTTTAGGTTT GACAACACCGG ACCTGTGTAC ACAGGTATCC TCTCACTGCT TCCACTGTCT CTTTAGGTTT GACACACACACACACACACACACACACACACACACACAC	2941					
GGAAGAATAT CCAATTGACT CAAACACCGG ACCTGTGTAC ATTACTTCA GTGTAGGTG 3061 AGGTGACAGA GAAATCCAAA CTGTTGATTA CAGGTGCACT ACAGGTATGC TCTTTCAGTC TCCACTGTCT CTTTAGGTTT GACAACTAAT GTCCACGTGA TGTCCATACG AGAAAGTCAG 3121 TATCTGGGGG CACATAGGTG AGTCTGCTCC ACTCAGAANN AAGCATACCT CTGCCCTCAT ATAGACCCCC GTGTATCCAC TCAGACGAG TGAGTCTNN TTCGTATGGA GACAGGAGTA 3181 CACAGGGGACA CAGGGTACAT CCCAGGCATC GGGGAACTGA AGCTTCACT TCAAACCATG GGTCCCCTGT GTCCCATGTA GGGTCCCTAG CCCCTTGATCT TCGAGAGGTGA AGTTTGGTAC AGTTTCTTAA TATACACACCC CCCTCCCCCC CACTGTAGCC TCCAGCAGCTA AGTTTGGTAC AGTTTCTTAA TTTTGGGAG GGGAGGGGGA GTGACATCG AAGCTGTTGA CGCGCTATCC AGTTTCTTAA TTTTGGGAG GGGAGGGGA GTGACATCG AAGCTGTTGA CGCGCTATCC AGTTTCTTAA TTTTTGTGGAG GGGAGGGGA GTGACATCG AAGCTGTTGA CGCGCTATCC AGAATAATTT TCTTTTATTT TCATTCCGTA TATTTAAAAGT AGCACTC 3361 GGTAAAAAAA AAGCACTC TANNATAGAA CNTCTANANT NTCNCNGNAT GTTATGGCAG CCATTTTTTT TCCGTACACT TANNATTGTT GNAGATNTNA NAGNGNCNTA CAATACCGTC 3421 AATTTAGTC ACGTCCAAAA CAAAAAGAAT ATCCAGAAG ATCCCTACT CATTCCGGA TTAAAATCAG TGCACGCATAA CAAAAAGAAT ATCCAGAAG ATACCTCATC CATTCCGGA TTCCGAGGT TCGTACCGCA GGCACAGGGGT CCCAAGACTA GGCAGAGGAG GATACCGGACT TTCCGAGGT TCGTACCGCA GCCAGAGGT CCCAAGACTA GGCAGAGGAG TCCAACCGTTA 3541 CAGGCAGGAC AGCAGGAGG GCCCAGAGGGT CCCAAGACTA GGCAGAGGAG TACCCCTTA 361 CACCATTCAG ACATCCATAA GGAATCCCCA ATGCTGTAT CAAGAGCACACGGAAGAAA CAACAAGACAA ATGCTGTAT GCGCAGAGGA TTCTCCCTC TCTCCGTCCTT CCTCCCC CGACGCCCC ATGGTGTAAC TGGGCAGAGAC TCCCAAGACTA GGGGTAAGAC CCTTACGGA ACACCCATAA GGAATCCCTA GCCAAGACCA GACAGAGAGA 3721 ACACCGTGG ACACCCATAA GGAATCCCAA ATGCTGTAT GCACCAGAGGAG TCCCACACTGA 3721 ACACCGTGG ACACCCTTTTG GACCTCGAA ACGCTGTAC CACACCTGA AACATCCTTT CGGTCCTTG GACCTCGCA AGCACGAGAC CCTTAACGAC CCTTACCACCTGA AACATCCTTT CGGTCCTTG GACCTGAAA ACGACCCTT ACCACATCA GCACACCACAC	2001					
13061 AGGTGACAGA GAAATCCAAA CTGTTGATTA CAGGTGCACT ACAGGTATGC TCTTTCAGTC TCCACTGTCT CTTTAGGTTT GACAACTAAT GTCCACGTGA TGTCCATAGG AGAAAAGCAG 3121 TATCTGGGGG CACATAGGTG AGTCTGCTCC ACTCAGAANN AAGCATACCT CTGCCCTCAT ATAGACCCCC GTGTATCCAC TCAGACCAGG TGAGTCTTNN TTCGTATGGA GACAGGAGTA 3181 CCAGGGGACA CAGGGTACAT CCCAGGCATC GGGGAACTGA AGCTCTCACT TCAAACCATG GGTCCCCTGT GTCCCATGTA GGGTCCGTAG CCCCTTGACT TGGACAGTGA AGTTTGGTAC 3241 TCAAAGAATT ATATCTGGAG GGGAGGGGG GTGACACTGAC TTCGACAACT GCGCCAATCC AGTTTCTTAA TTTTTGTGGA GGGGAGGGGG GTGACATCGG AAGCTGTGA CGCCCAATCC GGAAATATGTT TCTTTTATTT TCATTCCGTA TATATAAAGA GAAACCAC 3361 GGTAAAAAAA AAGCATGTGA ATNNTAACAA CNTCTANANT NTCNCNGNAT CTATAGCACAC 3421 AATTTTAGCA ACGTCCAAAA CAAAAAGATT ATTCCAGAAG AGTTCGTTG TTTAGAACAC 3421 AATTTTAGC ACGTCCAAAA CAAAAAGATT ATTCCAGAAG ATACCTCTC 3421 AATTTTAGC ACGTCCAAAA CAAAAAGATT ATTCCAGAAG ATACCTCATC CTATGCCTGA 3421 AATTTTAGC ACGTCCAAAA CAAAAAGATT ATTCCAGAAG ATACCTCATC CTATGCCTGA 3421 TCCAAGGTG TCGTACCGCA GGCAGAGGGT CCCCAAGACTA GGCAGAGGAG TGCCACGTTA 3541 CAGGCAGGAC AGAAGGAGG CCGCTCCCCC ATGGTTCTAAT CCGTCCCTCT CACGGCAAT TTCCGAGGTG TCGTACCGCA GGCAGGGGC TACCACATTG ACCAGAAGG TGCCACGTTA 3541 CAGGCAGGAC AGAGAGGAGG CCGCCACGCCCC ATGGTGTAAC TCGTCTCTC AGCGTGCAAT TCCGAGGTG TCGTACCGCA GGCACGAGGGT CCCAAGACTA GGCAGAGGAG TGCCACGTTA 3541 CAGCATGCAT CCTCCCCC CGACCTCCCC ATGGTTCTAAT CCGTCTCTC ATACAGGAACA 3601 CACCATTCAG ACATCCATAA GGAATGCCCA ATGGTGTAAC TGGGTCTTCC ATACAGGAACA 3601 CACCATTCAG ACATCCATAA GGAATGCCCA ATGGTGTAAC TGGATTCCC ATACAGGACA 3721 ACACCGTGGG GATTTTCAGG ATAGCATGA AGGCACCATAA CTTATCAAGA GACACCACTGA 3731 ACACCGTGGG GATTTTCAGG ATAGCATGA AGGCCCCTT GAATAGTTC TCTGTGTCCCAAGACCC CTAAAAGTCC TATCGGAAA AGGCCCCTT GAATAGTTCC AGTGTCCCAAGACC CCTGAGACCC CTGAGCACC CTGAGCACC CTGACCCCAAGAAC AGAGGACC CTGAGCACCACCACCACCACCACCACCACCACCACCACCACC	3001					
TCACTGTCT CTTTAGGTTT GACAACTAAT GTCCACGTGA TGTCCATACG AGAAAGTCAG 3121 TATCTGGGGG CACATAGGTG AGTCTGCTCC ACTCAGAANN AAGCATACCT CTGCCCTCAT ATAGACCCCC GTGTATCCAC TCAGACGAGG TGAGTCTTNN TTCGTATGGA GACGGGAGTA 3181 CCAGGGGACA CAGGGTACAT CCCAGGCGTC GGGGAACTCA AGCTCTCACT TCAAACCATG GGTCCCCTGT GTCCCATGTA GGGTCCGTAG CCCCTTGACT TCGAGAGTGA AGTTTGGTAC AGTTTCTTAA TTTTGTGGAG GGGAGGGGGA GTGACATCCG AAGCTGTTAGC TCCAGCAATCC AGTTTCTTAA TTTTGTGGAG GGGAGGGGGA GTGACATCGG AAGCTGTTGA CGCGGTTAGG 3201 CTTTATACAA AGAAAATAAA AGTAAGCCAT ATAAAATTTCC TCCAGCAAGC AAATCTTGTG GAAATATGTT TCTTTTATTT TCATTCCGTA TATTTAAAGG AGGTCGTTCG TTTAGAACAC 3361 GGTAAAAAAA AACCATGTGA ATNNTAACAA CNTCTANANT NTCNCNGNAT GTTATGGCAG CCATTTTTT TTCGTACACT TANNATTGAT GNAGATNINA NAGNGNCNTA CAATACCCGC 3421 AATTTTAGT ACCTCCAAAA CAAAAAGATT ATTCCAGAAG ATACCTCAT CTATGCCTGA TTAAAAACAG TGCAGGGTTT GTTTTTCTAA TAAGGTCTCT TATGGAGAGA TTACCGAGGACT 3421 AATTTTAGT ACCTCCAAAA CAAAAAAGATT ATTCCAGAAG ATACCTCAT CTATGCCTGA TTCCCAGAGGT TCGTACCGCA GGCAGAGGGT CCCCAAGACTA GGCAGAGGAG TGCCACGTTA TTCCCAGAGGT TCGTACCGCA GGCAGAGGGT CCCCAAGACTA GGCAGAGGAG TGCCACGTTA 3541 CAGGCAGGAC AGAGAGGAGG CCTCCCA ATGGTTCTAAT CCGTCTCCT ACGGTGCAAT TCCCAGAGGT TCGTACCGCA GGCAGAGGGT CCCCAAGACTA GGCAGAGAGG TACCCACTTA 3541 CAGGCAGGAC AGAGAGGAGG CCTCCAGAGC TACCACATTG ACCCACAAAG TACCTCATC GTCCGTCCT TCTCCCCC CGACGTCCCC ATGGTTAAC TGGGTTCTCCT ACGGTGCAAT 3541 CAGCATTCAG ACATCCATAA GGAATGCCAA ATGCCTGTAAC TGGGTTTCC ATAGAGGAGA 3601 CACCATTCAG ACATCCATAA GGAATGCCAA ATGCCTGTAAC CTGTTCCTC ATAGAGGAGA 3601 CACCATTCAG ACATCCATAA GGAATGCCAA ATGCCTGTAAC CTGATACCACAGAGA 3721 ACACCGTGGG GATTTTCAGG ATAGCACAGAAA ATGCCTGTAAC CTATAGAGA TCCACACATGA 3721 ACACCGTGG GATTTTCAGG ATAGCAAGAAA ATGCCTGTA GGAATAGCTCT CTGTGTGACT TGTGGCACC CTAAAAGTC TATCGTACCT CTGTCTCTAG GCCAGCAACA AGAGTCCCTT TGTGGCACC CTAAAAGTC TATCGTACCT CTGTCTCTAG GCCAGCAACA AGAGTACCTT TCCTCTCTG ACCCACGGAAA 3781 GAGCTTAGA AAGGAGAAC TGACCAGAAA CCTCGGAACCT TACCACAGGAA ACCTCTCTA GACCAACGGAA TCTCATGGAAT TCCACTTAG ACCCTGTCC CTGTCCCTC 3781 AAAATAGTTT AAGATCAATC TTGGATACAT TTTTAGTA	2061					
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ATAGACCCC GTGTATCCAC TCAGACGAGG TGAGTCTTNN TTCGTATGGA GACGGAGTA 3181 CCAGGGGACA CAGGGTACAT CCCAGGCATC GGGGAACTGA AGCTCTCACT TCAAACCATG GGTCCCCTG GTCCCATGTA GGGTCCCATG CCCCTTGACT TCGAGAGTGA AGTTTGGTAC 3241 TCAAAGAATT AAAACACCTC CCCCCCCCC CACTGTAGCC TTCGACAACT GCGCCAATCC AGTTTCTTAA TTTTGTGGAG GGGAGGGGA GTGACATCGG AAGCTGTTGA CGCCGATTCG GAAATATGTT TCTTTTATAAA AGAAAATAAA AGTAAGGCAT ATAAATTTCC TCCAGCAACC AAATCTTGTG GAAATATGTT TCTTTTATT TCATTCCGTA TATTAAAGG AGGTCGTTCG TTTAGACAC 3361 GGTAAAAAAA AAGCACTCT AAAAACACCTC CCATCTAGAC ATAAATTTCC TCCAGCAAGC AAATCTTGTG CCATTTTTT TCGTACACT TANNATTGTT GNAGATNINA NAGNGNCNIA CAATACCGTC 3421 AATTTAGCC AGCTCCAAAA CAAAAAGATT ATTCCAGAAG ATACCTCATC CTATGCCTGA TTTAAAATCAG TGCAGGTTT GTTTTTCTAA TAAGGTCGTC TATGGAGAGA GATACCGTC 3481 AAGGCTCCAC AGCATGGCGT CCGTCTCCCA GGGTTCTGT CAGGAGGAG TCCCAGGAT TTCCGAGGT TCGTACCGCA GGCAGAGGGT CCCAAGACTA GCCACATCC AGCACGACA 3541 CAGGCAGGAC AGCAGGAGG GCTGCAGGGC TACCACATTG ACCCAGAAGG TACCCCTTA GTCCGTCCTG TCTCTCCCC CGACGTCCCG ATGGTGTAC TGGGTCTCTC ATAGGAGAG 3601 CACCATTCAG ACATCCATAA GGAATGCCAA ATGCTGTATT GAATAGTTCT CTGTGCTGAT GTGGTAAGT TGTAGGTATT CCTTACGGTT TACGACATAA CTTATCAAGA GAACACTGA 3721 ACACCTTCAG GCAGGACAC CCTTACCGCT TACCACATTA ACCCAGAAGG TACCACTGA 3721 ACACCTTGG GATTTCAGG ATAGCATGA ATGCTGTAT GAATAGTTCT CTGTGCTGAT CTGTGGTAAGT TGTAGGTATT CCTTACGGTT TCCAGGGGAA CTCTAAGGAG TCACACTGA 3721 ACACCTTGG GATTTCAGG ATAGCATGA AGCACCTT GAATAGTTCT CTGTGCCAG 3721 ACACCTTGG GATTTCAGG ATAGCATGA AGCNCCCCTT GAATAGTTCT CTGTGCCAG TGTGGCACC CTAAAAGTCC TATCGACT TCCTCTC GAATACCAT AGAGATCCCT AGGACCTCAGAA 3721 ACACCTTGG AAGGAAACC CCTGAGCCTT TCCTCTCTC GAATACCAT ACACACTGA 3721 ACACCTTGG AAGGAAACC TATCGACATAA CCTCTCTCAG GCCAGCACA AGAGTACCAT ACACCCTGA 3721 ACACCTTGGA AAGACCAC TACCACATGAA AGCNCCCCTT GAATACCAT ACACACGGA 3721 ACACCTTGGA AAGACTC TATCGATCT TTTTAAGACC CCAATACCAT ACACACGGA 3721 ACACCTTGGA AAGACTC TATCGTACT TTTTAAGACC CCAATACCAT ACACACAGGA 3721 ACACCTTGGA AAGACTC TATCGTACT TTTTAAGACC CCAATACCAT ACACACGGA 3721 ACACCTTGGA AAGACTC TATCAGTTTC CTTCCCCC TGGACCACC T	2121					
3181 CCAGGGGACA CAGGGTACAT CCCAGGCATC GGGGAACTGA AGCTCTCACT TCAAACCATG GGTCCCCTG GTCCCATGTA GGGTCCGTAG CCCCTTGACT TCGAGAGTAG AGTTTGGTAC AGTTTCTTAA TAAACACCTC CCCTCCCCC CACTGTAGC TTCGACAACT GCGCCAATCC AGTTTCTTAA TTTTGTGGAG GGGAGGGGGA GTGACATCGG AAGCTGTTAG CGCGCAATCC AGTTTCTAA AGAAAATAAA AGTAAGGGGGGA GTGACATCGG AAGCTGTTGA CGCGCAATCG GAAATATAAA AGTAACAA AGAAAATAAA AGTAAGGAT ATAAATTTCC TCCAGCAAGC AAATCTTTGGAACAC CATTTTTT TCTTTATTT TCATTCCGTA TATTTAAAG AGGTGGTCG TTTAGAACAC CATTTTTTT TCGTACACT TANNATTGTT GNAGATNTNA NAGNGNCNTA CAATACCGTC CCATTTTTTT TCGTACACT TANNATTGTT GNAGATNTNA NAGNGNCNTA CAATACCGTC CATTTTTAAAATCAG TGCAGGATTT GTTTTTCTAA TAAGGTCTTC TATGGAGAG GATACCGCAAT TCCAGAGAG TCGAGAGGT CCCAACAA CAAAAAGATT ATTCCAGAAA ATACCTCCCTCA TTAAAATCAG TGCAGGGTTT GTTTTTCTAA TAAGGTCTTC TATGGAGTAG GATACGGACT TCCAGAGAG TCCCAACAT TCCAGAGAGAGT TCCAACACTAA CAAAAAGATT ATTCCAGAAA ATACCTCCC CAAGACGAA TTCCAGAGAG TCCCACGTTA TCCGAGAGGAG AGAAGGAGG GCCAGAGAGGT CCCAAGACAT GGCAGAGAGG TCCCACGTTA TCCGAGAGGA AGAAGGAGG GCCAGAGAGGT CCCAAACAT GCCAGAAGG TACCCACGTTA TCCGAGAGAGAA AGAACACACTGA ATACCTCCTC CAAGACATA CAACACTGAA ATACCTCCCT CAAGAGATA CACCAATGA ACACCACTGA ATACCACACTGA ATACCACACTGA ACACCATCAAA GCAATCCATAA GGAATGCCAA ATGCTGTATAC CCCAGAAGG TACCCACACTGA ATACCACACTGA ACACCACTGA AGAATCCTCT CGGACCTCCC ATGGGTAAC CTCTAAGAGAG TCCCACACTGA AGAATCCTCT CGGCCCCC CTAAAAGTCC TCCGACACACTGA AGACCACACTGA AGACCACACTCC CTCAAAAAGTCC TATCGACCACACACACACACACACACACACACACACACAC	3121					
GGTCCCTGT GTCCCATGTA GGGTCCGTAG CCCTTGACT TOGAGAGTGA AGTTTGGTAC 3241 TCAAAGAATT AAAACACCTC CCCTCCCCT CACTGTAGCC TTCGACAACT GCGCCAATCC AGTTTCTTAA TTTTTGTGGAG GGGAGGGGA GTGACATCGG AAGCTGTTGA CGCGGTTAGG 3301 CTTTATACAA AGAAAATAA AGTAAAGGCAT ATAAATTTCC TCCAGCAAGC AAATCTTGTG GAAATATGTT TCTTTTATTT TCATTCCGTA TATTTAAAGG AGGTCGTTCG TTTAGAACAC 3361 GGTAAAAAAA AAGCATGTGA ATNNTAACAA CNTCTANANT NTCNCNGNAT GTTATGGCAG CCATTTTTT TTCGTACACT TANNATGTT GNAGATNTNA NAGNGNCNTA CAATACCGTC 3421 AATTTTAGTC ACGTCCAAAA CAAAAAGATT ATTCCAGAAG ATACCTCATC CTATGCCTGA TTAAAAATCAG TGCAGGTTTT GTTTTCTAA TAAGGTCTTC TATGGAGAGA GAACCTCATC CTATGCCTGA TTCCGAGGGT TCGTACCGCA GGCAGAGGGT CCCAAGACTA GGCAGAGGAG TACCGGACT 3541 CAGGCAGGAC AGCAGGGGG GCTCCCAG GGGTTTGAT CCGTCTCCTC ACGGTGCAAT TTCCGAGGGT TCTCTCCTCC CGACGTCCCA ATGGTGTAAC TGGCAGAGGA TACCCACTTA GTCCGTCCTG TCTCTCCTC CGACGTCCCA ATGGTGTAAC TGGCAGAAGGA TACCCACTTA GTCGGTCATC TCTTCCTCC CGACGTCCCA ATGGTGTAAC TGGCAGAAGG TATCTCCTCT GTCGGTCCTG TCTCTCCTC CGACGTCCCA ATGGTGTAAC TGGCTTTCC ATAGAGGAGA 3661 CACCATTCAG ACATCCATAA GGAATGCCAA ATGCTGTAAC CTTATCAAGA GACACACTGA 3661 TTCTAGAGAA GCCCAGGACAC CCTTACGGTT TACGACTAAA CTTATCAAGA GACACACTGA 3721 ACACCGTGG GATTTTCAGG ATAGCATGA AGGCCCTT GAGATTCCT CAGGTTCC AAGACCTTTC GGTCCTCTG GGACTCGGAA AGGCCCCTT GAGATTCCT CAGGTTCCAAG 3781 GAGCCTTGAG AAGGAGAAC CCTGAGCCTT TCCNGGGGAA CTCTAAGGAG TCACAGGAGA 3781 GAGCCTTGAG AAGGAGAAC TGACCAGAAA CACTCACTCA GCACCACAACA AGAGTGAGCA 3781 GAGCCTTGAG AAGGAGAAC TGACCAGAAA CACTCACTCA GCACCACAACA AGAGTGAGCA 3781 GAGCCTTGAA AAGGAGAAC TGACCAGAAA CACTCACTCA GCACCACAACA AGAGTGAGCA 3781 AAGACACTT AAGAGACC TAACCAGAAA CACTCACTCA GCACCACCACAACA AGAGTGAGCA 3781 AAGCCTTGAA AAGGAGAAC TGACCAGAAA CACTCACTCA GCACCACCACAACA AGAGTGAGCA 3781 AAGACCTTTAAAATCTT TACACTAGA CACCACGAGAA 3781 CACCGTGGAACCC TTAACAGACC TACCACAGAAA CACCACAGGAA 3781 AAGCCTTGAAA ACGTTTACA CTCCCCC CTCCCCCC 3781 AAGGCCTTGAAAACTCT TTCCTCTCTC GCGCCT CTCCCCCC CTCCCCCC 3781 AAGGCCTTAAAACTCT TACCTACACA TACCAACAGGAA TTCTATGAAA TTTCACTTAA AACCTATCTA AAACTATTCC CTTCCCCCC CTGACCACCAC	3181					
AGTTTCTTAA TTTTGTGGAG GGGAGGGGGA GTGACATCGG AAGCTGTTGA CGCGGTTAGG 3301 CTTTATACAA AGAAAATAAA AGTAAGGCAT ATAAATTTCC TCCAGCAAGC AAATCTTGTG GAAATATGTT TCTTTTATTT TCATTCCGTA TATTTAAAGG AGGTCGTTCG TTTAGAACAC 3361 GGTAAAAAAA AAGCATGGA ATANTAACAA CNTCTANANT NTCNCNGNAT GTTATGCAG CCATTTTTTT TCGTACACT TANNATTGTT GNAGATNTNA NAGNGNCNTA CAATACCGTC 3421 AATTTTAGTC AGGTCCAAAA CAAAAAGATT ATTCCAGAGA ATACCTCATC CTATGCCTGA TTAAAATCAG TGCAGGATTT GTTTTCTAA TAAGGTCTC TATGGAGTAG GATACCGACT TTCCGAGGTG TCGTACCGCA GGCAGAGGGT CCCAACACTA GGCAGAGGA TGCCAGCAT GTCCGTCCTG TCTCTCCCC CGACGTCCCG ATGGTCTACT GACACACTA GGCAGAGGA TACCTCTCT GTGGGTAAGTC TGTAGGATAT CCTTACGGGT TACCACATTA GAATAGTTCT CTGTGGACAC 3601 CACCATTCAG ACATCCATAA GGAATGCCAA ATGCTCTATT GAATAGTTCT CTGTGGACT GTGGTAAGTC TGTAGGGACA CCTTACGGACT TCCNGGGGAA CTCAAGAG GACACACTGA 3661 TTCTAGAGAA GCCAGGACAC CCTGAGCCTT TCCNGGGGAA CTCTAAGAG GACACACTGA 3721 ACACCGTGGG GATTTTCAGG ATAGCAGAAA AGGNCCCCTT GAGATTCCTC AGGTCCCAGAGG TGTGGGCACC CTAAAAGTCC TATCGTACCT CTGTCTCTAG GCCAGAACA AGAGTCCCAGAGGAC CCTGAGCACA AGGNCCCCTT GAGATTCCTC AGGTCCCAGAGG 3781 GAGCCTTGAG AAGGAGACC CTTACGTACCT CTGTCTCTAG GCCAGAACA AGAGTGACA CTGGGAACTC TTCCTCTCTG ACTGGTCTTT CTGTCTCTAG GCCAGAACA AGAGTGACA 3781 GAGCCTTGAG AAGGAGACC TGACCAGAAA CACCAGGATC CGGTCGTGT TCCTCACCGT TGTGGCACCC CTAAAAGTCC TATCGTACCT CTGTCTCTAG GCCAGCAACA AGAGTGAGCA CTGGGAACTT TCCTCTCTG ACTGGTCTTT TTTTATACAC CCAAATACCAT ACACACAGGA TTCTATGAAA TTCTACTTAG AACCTATCAT AAACCTATCA AACCTACCAC GTTGTGCCTC 3901 GCTTGGCATT TGCAAAGTCT ATTCAGTTC CTTCCGCGCT CTGACCCACG GTTGTGCCCC CGAACCGTAA ACCTTTAAC ACCTATCAT AAACCTATCA AACCTACCAC GTTGTTCCCC CGAACCGTAA ACCTTAACA TAAGTCAAAG GAAGGGGG TACCCCACG GTTGTAGCGG CGAACCGTAA ACCTTTCAGA TAAGTCAAAG GAAGGGGGG GACCGGAAGA ACACTGCCC 3961 AGTGGGCTA ACCTGTAAC ACTGTAACA CCAAAGGGA TTTTACACC CAAAACCACAGGA TTCACCCGACT ACCTTCAGA TAAGTCAAAG GAAGGGGG TACCCGAAGA TTTTACACC CAAAACCACAGGA TTCACCCGACT ACCTTCAGA TAAGTCAAAG GAAGGCGCGA GACTGGGTG CAACCACTGCC 3961 AGTGGGCTA ACACTGTAAC ACTGTAACA CCACAGGGA TTCCCCAACCACG GTTGTAGCGC TCACCCGACCT ACCCTTAAC A	5101					
AGTTTCTTAA TTTTGTGGAG GGGAGGGGGA GTGACATCGG AAGCTGTTGA CGCGGTTAGG 3301 CTTTATACAA AGAAAATAAA AGTAAGGCAT ATAAATTTCC TCCAGCAAGC AAATCTTGTG GAAATATGTT TCTTTTATTT TCATTCCGTA TATTTAAAGG AGGTCGTTCG TTTAGAACAC 3361 GGTAAAAAAA AAGCATGTAA ATNNTAACAA CNTCTANANT NTCNCNGNAT GTTATGGCAG CCATTTTTTT TCGTACACT TANNATGTT GNAGATNTNAN NAGNGNCNTA CAATACCGTC 3421 AATTTAGCA AGGTCCAAAA CAAAAAGATT ATTCCAGAAG ATACCTCATC CTATGCCTGA TTAAAATCAG TGCAGGTTT GTTTTCTAA TAAGGTCTCC TATGGAGTAG TTCCCAGGGTG TCGTACCGCA GGCAGAGGGT CCCAACACT GGCAGAGGAG TGCCACATT GTCCGCGCA AGGAGGAGG GCTCAGAGG CTCCACACATG ACGCAGAGGA TACCTCCTC GTCGCTCCTG TCTCTCCCC CGACGTCCCA ATGGTGTAAC TGGGTCTTCC ATAGAGGAGA 3601 CACCATTCAG ACATCCATAA GGAATGCCAA ATGCTGTATT GAATAGTTCT CTGTGTGACT GTGGTAAGTC TGTAGGGACA CCTTACGGACT TACGACATAA CTTATCAAGA GACACACTGA 3661 TTCTAGAGAA GCCAGGACAC CCTGAGCCTT TCCNGGGGAA CTCTAAGGA GACACACTGA 3721 ACACCGTGG GATTTTCAGG ATAGCACAAA AGGCCCCTT GAGGATCCCC AGGGTCCCAAGGACACA AGGACCCCTG GGACCCCC CTAAAAGTCC TATCGTACCT CTGTCTCTC GAGGTTCCCACACACACACACACACACACACACACACACA	3241	TCAAAGAATT AAAACACCTC	CCCTCCCCCT	CACTGTAGCC	TTCGACAACT	GCGCCAATCC
GAAATAGTT TCTTTTATTT TCATTCCGTA TATTTAAAGG AGGTCGTTCG TTTAGAACAC 3361 GGTAAAAAAA AAGCATGTGA ATNNTAACAA CNTCTANANT NTCNCNGNAT GTTATGGCAG CCATTTTTT TTCGTACACT TANNATTGTT GNAGATNTNA NAGNGNCNTA CAATACCGTC 3421 AATTTTAGTC ACGTCCAAAA CAAAAAGATT ATTCCAGAAG ATACCTCATC CTATGCCTGA TTAAAATCAG TGCAGGTTTT GTTTTCTAA TAAGGTCTTC TATGGAGTAG GATACGGACT 3481 AAGGCTCCAC AGCATGGCGT CCGTCTCCCA GGGTTCTGAT CCGTCCCCA GGGTCCGAT TTCCGAGGTG TCGTACCGCA GGCAGAGGGT CCCAAGACTA GGCAGAGGA TGCCCACTT GTCCGAGGTG TCGTACCGCA GGCAGAGGGT CCCAAGACTA GGCAGAGGA TGCCACGTTA 3541 CAGGCAGGAC AGAGAGGAGG GCTGCAGGGC TACCACATTG ACCCAGAAGG TATCTCCTCT GTCCGTCCTG TCTCTCCTCC CGACGTCCCG ATGGTGTAAC TGGGTCTCC ATAGAGGAGA 3661 CACCATTCAG ACATCCATAA GGAATGCCAA ATGCTGTATT GAATACTTCT CTTGTGACTG GTGGTAAGTC TGTAGGTATT CCTTACGGTT TACGACATAA CTTATCAAGA GACACACTGA 3661 TTCTAGAGAA GCCAGGACAC CCTGAGCCTT TCCNGGGGAA CTCTAAGGAG TCACAGGTTC AAGATCTCTT CGGTCCTGTG GGACTCGGAA AGGNCCCCTT GAGATTCCTC AGTGTCCAAG 3721 ACACCGTGGG GATTTTCAGG ATAGCATGGA AGGNCCCCTT GAGATTCCTC AGTGTCCAAG 3781 GAGCCTTGAG AAGGAGAGC TGACCAGAAA CACTCACTCA GCCACGCACA AGAGTGAGCA CTCGGAACTC TTCCTCTCTG ACTGCTCTTT GTGAGTAGT CGTGAGACGT CCTCGCTCCT 3841 AAGATACTTT AAGATGAATC TTGGATAGAT TTTGGATGAGT CCTCGTCTCCTC TTCTATGAAA TTCTACTATAG AACCTATCTA AAACTTATGA GGCAATACCAT ACACACAGGA TTCTATGAAA TTCTACTATAG AACCTATCTA AAACTTATGG GGTTATGGTA TGTGTGTCCT 3901 GCTTGGCATT TGCAAAGTCT ATTCACTTC CTTCCCCC CTGACCCAC GTTGTAGGTA TTCTCACCCGC CGAACCGTAA ACCTTTCAGA TAAGCCAATAG GAAGGCGCGA GACTGGGTC CAACACACGG 3961 AGTGGGCTGA ACACTGTAAC ACCTATCTA AAACTTATGG GACTGGGTC CAACACACGG AGCGGGAAC TGCACCAATAG GAAGGCGCCA GACTGGGTC CAACACCACGC CGAACCGTAA ACCTTTCAGA TAAGCCAATAC CATCACCAC GACTGGGTC CAACACCACGC CGAACCGTAA ACCTTTCAGA TAAGCCAATAC CATCACCAC GACTGGGTC CAACACCACGC CGAACCGTAA ACCTTTCAGA TAAGCCAATAC CATCACCAC GACTGGGTC CAACACCACGC CGAACCGTAA ACCTTTCAGA TAAGCCATATCA CACCACAGGA TACCCCACG GTTGTAGCCC CGAACCGTAA ACCTGTAAC ACCTGTACC CGAATACCCC ATGGCTTCT AAAATGTCAC TCACCCGACT TGTGGAATT TATCACTTC CGCGCT CTCACCCACG GTTGTAGCCC AACCGTAA ACCTGTAAC CGTATCATA	32.2				AAGCTGTTGA	CGCGGTTAGG
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AAGATCTCTT CGGTCCTGTG GGACTCGGAA AGGNCCCCTT GAGATTCCTC AGTGTCCAAG 3721 ACACCGTGGG GATTTCAGG ATAGCATGGA GACAGAGATC CGGTCGTTGT TCTCACTCGT TGTGGCACCC CTAAAAGTCC TATCGTACCT CTGTCTCTAG GCCAGCAACA AGAGTGAGCA 3781 GAGCCTTGAG AAGGAGAGAC TGACCAGAAA CACTCACTCA GCACTCTGCA GGAGCAGGAG CTCGGAACTC TTCCTCTCTG ACTGGTCTTT GTGAGTGAGT CGTGAGACGT CCTCGTCCTC 3841 AAGATACTTT AAGATGAATC TTGGATAGAT TTTGATACAC CCAATACCAT ACACACAGGA TTCTATGAAA TTCTACTTAG AACCTATCTA AAACTATGTG GGTTATGGTA TGTGTGTCCT 3901 GCTTGGCATT TGCAAAGTCT ATTCAGTTTC CTTCCGCGCT CTGACCCACG GTTGTAGCGG CGAACCGTAA ACGTTTCAGA TAAGTCAAAG GAAGGCGCGA GACTGGGTGC CAACATCGCC 3961 AGTGGGCTGA ACACTGTAAC ACTGTACATG CGATTTCCCC ATGGGCTTCT AAAATGTCAC TCACCCGACT TGTGACATTG TGACATGTAC GCTAAAGGGG TACCCGAAGA TTTTACAGTG		**********			000000000000000000000000000000000000000	manan acamma
ACACCGTGGG GATTTCAGG ATAGCATGGA GACAGAGATC CGGTCGTTGT TCTCACTCGT TGTGGCACCC CTAAAAGTCC TATCGTACCT CTGTCTCTAG GCCAGCAACA AGAGTGAGCA 3781 GAGCCTTGAG AAGGAGAGAC TGACCAGAAA CACTCACTCA GCACTCTGCA GGAGCAGGAG CTCGGAACTC TTCCTCTCTG ACTGGTCTTT GTGAGTGAGT CGTGAGACGT CCTCGTCCTC 3841 AAGATACTTT AAGATGAATC TTGGATAGAT TTTGATACAC CCAATACCAT ACACACAGGA TTCTATGAAA TTCTACTTAG AACCTATCTA AAACTATGTG GGTTATGGTA TGTGTGTCCT 3901 GCTTGGCATT TGCAAAGTCT ATTCAGTTTC CTTCCGCGCT CTGACCCACG GTTGTAGCGG CGAACCGTAA ACGTTTCAGA TAAGTCAAAG GAAGGCGCGA GACTGGGTGC CAACATCGCC 3961 AGTGGGCTGA ACACTGTAAC ACTGTACATG CGATTTCCCC ATGGGCTTCT AAAATGTCAC TCACCCGACT TGTGACATTG TGACATGTAC GCTAAAGGGG TACCCGAAGA TTTTACAGTG	3661		-			
TGTGGCACCC CTAAAAGTCC TATCGTACCT CTGTCTCTAG GCCAGCAACA AGAGTGAGCA 3781 GAGCCTTGAG AAGGAGAGAC TGACCAGAAA CACTCACTCA GCACTCTGCA GGAGCAGGAG CTCGGAACTC TTCCTCTCTG ACTGGTCTTT GTGAGTGAGT CGTGAGACGT CCTCGTCCTC 3841 AAGATACTTT AAGATGAATC TTGGATAGAT TTTGATACAC CCAATACCAT ACACACAGGA TTCTATGAAA TTCTACTTAG AACCTATCTA AAACTATGTG GGTTATGGTA TGTGTGTCCT 3901 GCTTGGCATT TGCAAAGTCT ATTCAGTTTC CTTCCGCGCT CTGACCCACG GTTGTAGCGG CGAACCGTAA ACGTTTCAGA TAAGTCAAAG GAAGGCGCGA GACTGGTGC CAACATCGCC 3961 AGTGGGCTGA ACACTGTAAC ACTGTACATG CGATTTCCCC ATGGGCTTCT AAAATGTCAC TCACCCGACT TGTGACATTG TGACATGTAC GCTAAAGGGG TACCCGAAGA TTTTACAGTG						
GAGCCTTGAG AAGGAGAGAC TGACCAGAAA CACTCACTCA GCACTCTGCA GGAGCAGGAG CTCGGAACTC TTCCTCTCTG ACTGGTCTTT GTGAGTGAGT CGTGAGACGT CCTCGTCCTC 3841 AAGATACTTT AAGATGAATC TTGGATAGAT TTTGATACAC CCAATACCAT ACACACAGGA TTCTATGAAA TTCTACTTAG AACCTATCTA AAACTATGTG GGTTATGGTA TGTGTGTCCT 3901 GCTTGGCATT TGCAAAGTCT ATTCAGTTTC CTTCCGCGCT CTGACCCACG GTTGTAGCGG CGAACCGTAA ACGTTTCAGA TAAGTCAAAG GAAGGCGCGA GACTGGGTGC CAACATCGCC 3961 AGTGGGCTGA ACACTGTAAC ACTGTACATG CGATTTCCCC ATGGGCTTCT AAAATGTCAC TCACCCGACT TGTGACATTG TGACATGTAC GCTAAAGGGG TACCCGAAGA TTTTACAGTG	3721					
CTCGGAACTC TTCCTCTG ACTGGTCTTT GTGAGTGAGT CGTGAGACGT CCTCGTCCTC 3841 AAGATACTTT AAGATGAATC TTGGATAGAT TTTGATACAC CCAATACCAT ACACACAGGA TTCTATGAAA TTCTACTTAG AACCTATCTA AAACTATGTG GGTTATGGTA TGTGTGTCCT 3901 GCTTGGCATT TGCAAAGTCT ATTCAGTTTC CTTCCGCGCT CTGACCCACG GTTGTAGCGG CGAACCGTAA ACGTTTCAGA TAAGTCAAAG GAAGGCGCGA GACTGGGTGC CAACATCGCC 3961 AGTGGGCTGA ACACTGTAAC ACTGTACATG CGATTTCCCC ATGGGCTTCT AAAATGTCAC TCACCCGACT TGTGACATTG TGACATGTAC GCTAAAGGGG TACCCGAAGA TTTTACAGTG		TGTGGCACCC CTAAAAGTCC	TCACCAGAAA	CACTCACTCA	GCACTCTGCA	GGAGCAGGAG
AAGATACTTT AAGATGAATC TTGGATAGAT TTTGATACAC CCAATACCAT ACACACAGGA TTCTATGAAA TTCTACTTAG AACCTATCTA AAACTATGTG GGTTATGGTA TGTGTGTCCT 3901 GCTTGGCATT TGCAAAGTCT ATTCAGTTTC CTTCCGCGCT CTGACCCACG GTTGTAGCGG CGAACCGTAA ACGTTTCAGA TAAGTCAAAG GAAGGCGCGA GACTGGGTGC CAACATCGCC 3961 AGTGGGCTGA ACACTGTAAC ACTGTACATG CGATTTCCCC ATGGGCTTCT AAAATGTCAC TCACCCGACT TGTGACATTG TGACATGTAC GCTAAAGGGG TACCCGAAGA TTTTACAGTG	3781					
TTCTATGAAA TTCTACTTAG AACCTATCTA AAACTATGTG GGTTATGGTA TGTGTGTCCT 3901 GCTTGGCATT TGCAAAGTCT ATTCAGTTTC CTTCCGCGCT CTGACCCACG GTTGTAGCGG CGAACCGTAA ACGTTTCAGA TAAGTCAAAG GAAGGCGCGA GACTGGGTGC CAACATCGCC 3961 AGTGGGCTGA ACACTGTAAC ACTGTACATG CGATTTCCCC ATGGGCTTCT AAAATGTCAC TCACCCGACT TGTGACATTG TGACATGTAC GCTAAAGGGG TACCCGAAGA TTTTACAGTG	2041					
GCTTGGCATT TGCAAAGTCT ATTCAGTTTC CTTCCGCGCT CTGACCCACG GTTGTAGCGG CGAACCGTAA ACGTTTCAGA TAAGTCAAAG GAAGGCGCGA GACTGGGTGC CAACATCGCC 3961 AGTGGGCTGA ACACTGTAAC ACTGTACATG CGATTTCCCC ATGGGCTTCT AAAATGTCAC TCACCCGACT TGTGACATTG TGACATGTAC GCTAAAGGGG TACCCGAAGA TTTTACAGTG	3841	TTCTATGAAA TTCTACTTAG	AACCTATCTA	AAACTATGTG	GGTTATGGTA	TGTGTGTCCT
CGAACCGTAA ACGTTTCAGA TAAGTCAAAG GAAGGCGCGA GACTGGGTGC CAACATCGCC 3961 AGTGGGCTGA ACACTGTAAC ACTGTACATG CGATTTCCCC ATGGGCTTCT AAAATGTCAC TCACCCGACT TGTGACATTG TGACATGTAC GCTAAAGGGG TACCCGAAGA TTTTACAGTG	3901					
3961 AGTGGGCTGA ACACTGTAAC ACTGTACATG CGATTTCCCC ATGGGCTTCT AAAATGTCAC TCACCCGACT TGTGACATTG TGACATGTAC GCTAAAGGGG TACCCGAAGA TTTTACAGTG	J 2 U 1					
TCACCCGACT TGTGACATTG TGACATGTAC GCTAAAGGGG TACCCGAAGA TTTTACAGTG	3961					
The second secon	3301					
	4021	CATCTCCTCC CCTGCTGTGT	CCTACTCCAT	TTACTGGTTA	CAAGGTGATG	TCAACAAGAG
GTAGAGGAGG GGACGACACA GGATGAGGTA AATGACCAAT GTTCCACTAC AGTTGTTCTC		GTAGAGGAGG GGACGACACA	GGATGAGGTA	AATGACCAAT	GTTCCACTAC	AGTTGTTCTC



4081	AAGCTATCA	C AACACCAGG	G CTGTGCACAC	GTGCACACAC	ATGTATGCAC	AAGCACACAG
	TTCGATAGT	G TTGTGGTCC	C GACACGTGTG	CACGTGTGTG	TACATACGTG	TTCGTGTGTC
4141	ATGTATGTA	C AGCACACAC	A CACACACACA	CCCCAAAAGG	AGAGAAAAGG	AAGAAAACAT
	TACATACAT	G TCGTGTGTG	T GTGTGTGTGT	GGGGTTTTCC	TCTCTTTTCC	TTCTTTTGTA
4201	AAAATATT	G CGACAGCTA	C CCCATATCAA	AATAGTCTTT	CCTGTAGGAA	ACAGGAGCTC
	AATATTTTT	C GCTGTCGAT	G GGGTATAGTT	TTATCAGAAA	GGACATCCTT	TGTCCTCGAG
4261	TCCATAAGG.	A ATTATCATG	A GTGTGTTCTC	CCATCAGTGC	ACTCTCCCAG	GGGTGCTCAC
	AGGTATTCC	T TAATAGTAC	r cacacaagag	GGTAGTCACG	TGAGAGGGTC	CCCACGAGTG
4321	TGAAGCTGG	T CCACRTCTA	T AAACAGGTGA	CACTGGCTGC	AGCAAAAAGC	CATTCGATCC
	ACTTCGACC.	A GGTGRAGAT	A TTTGTCCACT	GTGACCGACG	TCGTTTTTCG	GTAAGCTAGG
4381	ACACAAATT	G ATCTTCTAT	CATCTTGGAAT	CTGAATTGCA	GGGAGGAGCA	GYATGTAAGA
	TGTGTTTAA	C TAGAAGATA	TAGAACCTTA	GACTTAACGT	CCCTCCTCGT	CYTACATTCT
4441	CGACCGTTT	A ATTCAGGCA	TCCGAAGGCA	TGAGCGCATG	GATTCTRTCA	CCAAGCGTAT
	GCTGGCAAA'	TAAGTCCGT	A AGGCTTCCGT	ACTCGCGTAC	CTAAGARAGT	GGTTCGCATA
4501	AAAAGGACC	TGGCATTGG	AAACCTATGA	CGGACTGTTT	TTGCTGTAGA	AGTAGGGATT
	TTTTCCTGG	ACCGTAACC	TTTGGATACT	GCCTGACAAA	AACGACATCT	TCATCCCTAA
4561	TTACAGAAG	CTCCTTGRAT	TTGCCCTGCC	TGGGGCAGTT	TTGCAGAGGA	ACCTGCCAGA
	AATGTCTTC	A GAGGAACRTA	AACGGGACGG	ACCCCGTCAA	AACGTCTCCT	TGGACGGTCT
4621	GATTTATTGO	GCTGGTCAGTC	TCTTGTGAAA	TAGTATCATG	TGAGAAACAG	TTTGTAGAAA
	CTAAATAACO	GACCAGTCAG	AGAACACTTT	ATCATAGTAC	ACTCTTTGTC	AAACATCTTT
4681	AAAACTATAC	CTGGGAAGAC	CTTTGCAACA	TTGTTCCTTC	CATGGGCCAA	GACTCAGTTA
	TTTTGATATG	GACCCTTCTG	GAAACGTTGT	AACAAGGAAG	GTACCCGGTT	CTGAGTCAAT
4741	GGAGGCATAA	ATCTGCCCGG	AATAAACTAG	GCCAGGATAC	AGCCATGTTT	AGTTAATAAT
	CCTCCGTATI	TAGACGGGCC	TTATTTGATC	CGGTCCTATG	TCGGTACAAA	TCAATTATTA
		EcoRI		– .——.		
4801			GGCAGGATTG	GTTTTTTTGT	GTCTTGGCAA	GTGGAGCATA
	AACCAAAATC	TTAAGTGTGT	CCGTCCTAAC	CAAAAAAACA	CAGAACCGTT	CACCTCGTAT
4861	TTTAACATAC	AGGCATGGGA	ATCCTGCCTC	TTAGCTTTTC	CCACCCTCTT	GTCTCACCAA
	AAATTGTATG	TCCGTACCCT	TAGGACGGAG	AATCGAAAAG	GGTGGGAGAA	CAGAGTGGTT
4921	GTTTTTTCTC	TCCAAAGGTT	TCCAGGAATT	TCTCATTAAT	GGCTGATGCA	AACTTAGTGA
	CAAAAAAGAG	AGGTTTCCAA	AGGTCCTTAA	AGAGTAATTA	CCGACTACGT	TTGAATCACT
4981	ATAATAATGA	ATATAAACAA	TGCTCACCTC	ACCAAAATTA	TATTATTTĞC	AGTCATTTGT
	TATTATTACT	TATATTTGTT	ACGAGTGGAG	TGGTTTTAAT	ATAATAAACG	TCAGTAAACA
5041	GATAACACAA	ATTTTATCGC	AATGGTTATT	ATTTAATTTG	TGGCCACACA	CTGTGGTTAT
	CTATTGTGTT	TAAAATAGCG	TTACCAATAA	TAAATTAAAC	ACCGGTGTGT	GACACCAATA
5101	CTTTTGTTGT		GAGAAAATGT			
	GAAAACAACA	CCAACAAAGA	CTCTTTTACA	AGAACCTATA	CATTCACGGT	TATGGTCACA
5161			CAAAATACAG			
	CTTCATAACT	AGGGCCCGTC	GTTTTATGTC	GGATTCCAAA	CATTTGTAGT	TAAGATAGAG
5221			AAGCTGCGGG			
	TCAAGTAGTC	TCCCGGACTC	TTCGACGCCC	CGTCACATTT	CATTTCATAC	GACCCGACCA
5281			CAAGAAGAGA			
	CCACCAGTCG	GAGGGGAACG	GTTCTTCTCT	CGTTAACTTA	GGACAGGGGT	CGAGGGAGGT
5341			CTGGCCCGAC			
			GACCGGGCTG			
5401			TGACCTGTTT			
	TTTTTTATCC	GTCAAACTAC	ACTGGACAAA	TCACACCGAG	AGGAGAAAAC '	TCGTACACAA

Figure 15 (con't)

5461	AGCATTTTTA	TTTTATACTO	ATCCAGTGAA	CTCTGCTCTT	CCAAGTGTGT	' TCATGTATGT
				GAGACGAGAA	The second secon	
5521				CTGCACAACG		•
				GACGTGTTGC		
5581				CTCTTAGGTC GAGAATCCAG		
5641				CTTGAGCCTT		
5041				GAACTCGGAA		
5701	CTCCCCTTTC	TCTCCTGTGC	TCACCTTACC	TTTCCAGAGT	GTAAGGGACA	ACTTTTAAGG
	GAGGGGAAAG	AGAGGACACG	AGTGGAATGG	AAAGGTCTCA	CATTCCCTGT	TGAAAATTCC
5761				CACCAGGTGC		
				GTGGTCCACG		
5821				CTTGTTTGTA GAACAAACAT		
5881				GGCTGCCTTT		
3001				CCGACGGAAA		
5941	TGTATATTCC	TACCCTGCAT	TTGCTTTGTG	TGGTGCTGAT	GCTGTGGCAG	TAGGATCTTG
-	ACATATAAGG	ATGGGACGTA	AACGAAACAC	ACCACGACTA	CGACACCGTC	ATCCTAGAAC
6001	GATGACTCTC	CATCAGTCAC	AGACTCCCCC	TGTTGCAAAG	TGTCAGGCTG	ACTCGACAGT
				ACAACGTTTC		
6061				GCTGTCAGCC		
C101				CGACAGTCGG CTGGCTGGCT		
6121				GACCGACCGA		
6181				CCATCATTCT		
	TCAACTTTAG	TCCTCACACG	GGTCGTCTCG	GGTAGTAAGA	GTGACAGAAA	CTTTGTTTCG
6241				GCATTTCATG		
				CGTAAAGTAC		
6301				CTCCTTACTA GAGGAATGAT		
6361				GGGGCACAGG		
6261				CCCCGTGTCC		
6421	AGTGTGTGTC	TCAAGAGGAA	GTCAGGGTAC	TAGCTCAGTG	CTCAATCTCC	AGGTACTATA
	TCACACACAG	AGTTCTCCTT	CAGTCCCATG	ATCGAGTCAC	GAGTTAGAGG	TCCATGATAT
6481				AAATAAATCC		
	ATATGTAAAC					
6541	TAGCGTACCT ATCGCATGGA					
	ATCGCATGGA	ITTCIGATA	Xbal	Changedoro		
6601	GATCCCCCGG	TCTTCTGCTG	TATCTAGAAC	AGTGACTATA	AATGATGTAT	GGGAATAGTG
	CTAGGGGGCC A					
6661	TTTCCATATG A					
	AAAGGTATAC T					
6721	AGTGCAGCTG A					
6701	TCACGTCGAC TCACGTACAA N		•	4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -		
6781	AGTGCATGTT N					
			·			

Figure 15 (con't)

	6841	ATTCTTTCCA	AGGAGAGCAG	CTTTCTCCAC	AGGAACACAG	TAACAAAAGA	GGTCCGCCGC
		TAAGAAAGGT	TCCTCTCGTC	GAAAGAGGTG	TCCTTGTGTC	ATTGTTTTCT	CCAGGCGGCG
	6901	CATCCACACC	CAGCCAAGAC	ACCTCAGAGG	CCATAGGGAC	AACCTCCTTG	CTGGCCAACA
		GTAGGTGTGG	GTCGGTTCTG	TGGAGTCTCC	GGTATCCCTG	TTGGAGGAAC	GACCGGTTGT
	6961	CCTGCTGGAG	CAGGGCACAG	GTCCCAGCAA	CTGATCCTCA	GTGGATGGGT	CCGCAGTCAA
		GGACGACCTC	GTCCCGTGTC	CAGGGTCGTT	GACTAGGAGT	CACCTACCCA	GGCGTCAGTT
						HindIII	EcoRV
2	7021	AGCCTTAATG	GGCTCTCTTT	TGAAGGGGAA	AGAAANNTTT	CAAGCTTATG	ATATCCAACA
1 (A)		TCGGAATTAC	CCGAGAGAAA	ACTTCCCCTT	TCTTTNNAAA	GTTCGAATAC	TATAGGTTGT
112.00	7081	TTATTATAGT	TGATGAGTTA	GTAAATTCCG	AAAAAAAAG	ATGATTTTAT	ATGTATGACA
133 		AATAATATCA	ACTACTCAAT	CATTTAAGGC	TTTTTTTTC	TACTAAAATA	TACATACTGT
1 2	7141	TAAAAAAAT	CTTTGTAAAG	TGCGCAAGTG	CAATAATTTA	AAGAGGTCTT	ATCTTTGCAT
17.1 18.1 18.4		ATTTTTTTA	GAAACATTTC	ACGCGTTCAC	GTTATTAAAT	TTCTCCAGAA	TAGAAACGTA
1 (17)	7201	ATTAAAATTA	TAAATATTGT	ACATGTGTGT	AATTTTTCAT	GTATTCATTT	GCAGTCTTTG
1 20 20 1 20 20 1 20 20 1 20 20 1 20 20 1 20 20 2 20 20		TAATTTTAAT	ATTTATAACA	TGTACACACA	TTAAAAAGTA	CATAAGTAAA	CGTCAGAAAC
i i	7261	TATTTAAAAA	AACTTTACTG	TTATGTTTGT	ATAATAGAAC	ATTAATCATT	TATTATAACT
in German		TTTTTAAATA	TTGAAATGAC	AATACAAACA	TATTATCTTG	TAATTAGTAA	ATAATATTGA
- Control of the Cont	7321	CAGACAAGGT	GTAAATAAAT	TCATAATTCA	AACAGCCAGT	ATATATGCAT	ATATGGGTGT
100		GTCTGTTCCA	CATTTATTTA	AGTATTAAGT	TTGTCGGTCA	TATATACGTA	TATACCCACA
	7381	TACATTGCAA	AAATCTCTAT	CTTTGTTCTA	TTCACATGCT	TAAAGAAGTA	AGAAATCTTT
orboad grande		ATGTAACGTT	TTTAGAGATA	GAAACAAGAT	AAGTGTACGA	ATTTCTTCAT	TCTTTAGAAA
*	7441	TGTGGATATG	TAATTATACA	TATAAAGTAT	ATATATATGT	ATGATACATG	TTTATATAAA
		ACACCTATAC	ATTAATATGT	ATATTTCATA	TATATATACA	TACTATGTAC	AAATATATT
	7501	AGAAATGTTC	ATTTTAA	TGGATATTCT	TTGGTGTGAA	TAATTGAATA	CAACATTTTT
		TCTTTACAAG	TTAAAATTAT	ACCTATAAGA	AACCACACTT	ATTAACTTAT	GTTGTAAAAA
	7561	AAAATGAAAA	AAAAAAAA	С			
		TTTTACTTTT	TTTTTTTTT	G			
					*		

Figure 16

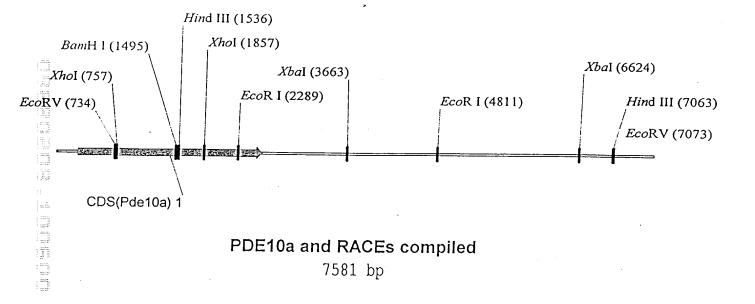
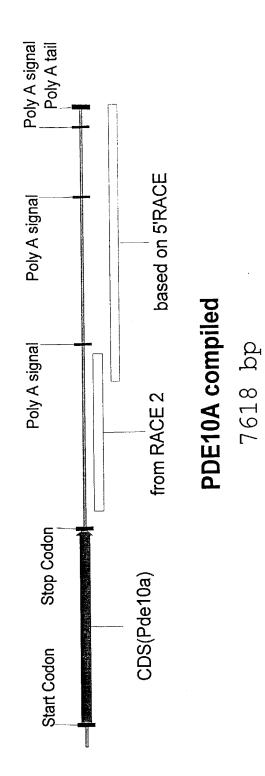


Figure 17

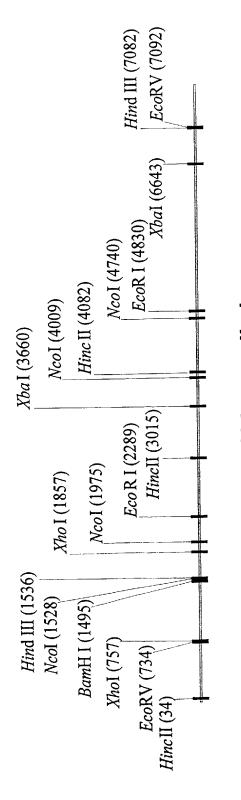
PDE10A compiled - coding sequence and features



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Figure 18

PDE10A compiled - restriction sites



PDE10A compiled 7618 bp

Figure 19

	1				GTCAACCTGA		
					CAGTTGGACT		
	61	AGACCCCACT	GATGGTGTGC	TGCCTTTCAG	TCCAGGAAGA	AAGAAAGGAA	GGATTCTGAG
		TCTGGGGTGA	CTACCACACG	ACGGAAAGTC	AGGTCCTTCT	TTCTTTCCTT	CCTAAGACTC
	121	GATTTGGGCA	AAGCCACATT	CCTGGAGAAG	TCTGTATACT	GATGCCAAAC	CCAAGAGCTG
		CTAAACCCGT	TTCGGTGTAA	GGACCTCTTC	AGACATATGA	CTACGGTTTG	GGTTCTCGAC
	181	AGCTGCTGAT	GAGGCCCAGG	GAGTAGCCCA	CGCGCCCTGA	GCTGTTGGCT	AGCAAGGCCT
	201				GCGCGGGACT		
**	241						
	241				TGGTTTGACG		
-		····			ACCAAACTGC		
	301				ATTTGTTTCT		
		AGAAAGAGAG	GTAGGGGTCC	ATAATCTACT	TAAACAAAGA	CTTTCACAAT	CACGTCTCTG
	361				CAAAGCAAAA		
		ACACCTTTTC	ACCGACTTCT	CCTTTTGGTT	GTTTCGTTTT	CTACTTGGTA	GAGGGTTCCT
200	421	AGTCAGCAGG	TACCAGGATA	CGAATATGCA	GGGAGTCGTG	TACGAGCTGA	ACAGCTACAT
A.		TCAGTCGTCC	ATGGTCCTAT	GCTTATACGT	CCCTCAGCAC	ATGCTCGACT	TGTCGATGTA
ji -	481	AGAGCAGCGC	CTGGACACGG	GCGGGGACAA	CCACCTGCTC	CTCTATGAGC	TCAGCAGCAT
11		TCTCGTCGCG	GACCTGTGCC	CGCCCTGTT	GGTGGACGAG	GAGATACTCG	AGTCGTCGTA
5 **	541	CATCAGGATA	GCCACAAAAG	CCGACGGATT	TGCACTGTAC	TTCCTTGGAG	AGTGCAATAA
					ACGTGACATG		
	601				GAAGGAAGGC		
1,2	401				CTTCCTTCCG		
:	C C 1						
mile	661				TGCCTACGTG		
					ACGGATGCAC		
1000	721				ATTTCCTCGA		TGGAATCAGG
2 2 2		CAACCATCTC	CTATAGGAAC	CCCTACTCGC	TAAAGGAGCT	CCATGACCGG	ACCTTAGTCC
100	781	= :			CATTGTCACT		
2 2 2 3		TTGGGCGTAG	GTCAGACAAG	AAACGAACGG	GTAACAGTGA	CGGTAACCTC	TGAACTAACC
	841	CATCCTTGAA	CTGTACAGGC	ACTGGGGCAA	AGAGGCCTTC	TGCCTCAGCC	ATCAGGAGGT
		GTAGGAACTT	GACATGTCCG	TGACCCCGTT	TCTCCGGAAG	ACGGAGTCGG	TAGTCCTCCA
	901	TGCAACAGCC	AATCTTGCTT	GGGCTTCCGT	AGCAATACAC	CAGGTGCAGG	TGTGTAGAGG
		ACGTTGTCGG	TTAGAACGAA	CCCGAAGGCA	TCGTTATGTG	GTCCACGTCC	ACACATCTCC
	961	TCTCGCCAAA	CAGACCGAAC	TGAATGACTT	CCTACTCGAC	GTATCAAAGA	CATACTTTGA
		AGAGCGGTTT	GTCTGGCTTG	ACTTACTGAA	GGATGAGCTG	CATAGTTTCT	GTATGAAACT
	1021	TAACATAGTT					
	1021	ATTGTATCAA					
	1001	GAACGCCGAC		and the second s	and the second of the second of the	· · ·	the second second second second
	1081	CTTGCGGCTG					
	1141	CCTGTTTGAC					
		GGACAAACTG					
	1201		ATTGAGAAAG	GGATTGCTGG	TCAAGTGGCA	AGAACAGGCG	AAGTCTTGAA
		GTCTAAAAGG					
	1261	CATTCCCGAT	GCCTACGCGG	ACCCTCGCTT	TAACAGGGAG	GTGGACCTGT	ACACAGGCTA
		GTAAGGGCTA	CGGATGCGCC	TGGGAGCGAA	ATTGTCCCTC	CACCTGGACA	TGTGTCCGAT
	1321	CACCACGAGG	AACATTCTGT	GTATGCCCAT	AGTGAGCCGA	GGCAGCGTGA	TTGGCGTGGT
		GTGGTGCTCC	TTGTAAGACA	CATACGGGTA	TCACTCGGCT	CCGTCGCACT	AACCGCACCA
*					*		

Figure 19 (con't)

	1381	GCAGATGGTG	AACAAGATCA	GCGGTAGCGC	CTTCTCCAAG	ACAGACGAGA	ACAACTTCAA
		CGTCTACCAC	TTGTTCTAGT	CGCCATCGCG	GAAGAGGTTC	TGTCTGCTCT	TGTTGAAGTT
	1441	GATGTTTGCT	GTCTTCTGCG	CACTGGCCTT	GCACTGTGCT	AACATGTACC	ACAGGATCCG
_		CTACAAACGA	CAGAAGACGC	GTGACCGGAA	CGTGACACGA	TTGTACATGG	TGTCCTAGGC
	1501	CCACTCAGAA	TGCATCTACA	GGGTTACCAT	GGAGAAGCTT	TCCTACCACA	GCATCTGCAC
		GGTGAGTCTT	ACGTAGATGT	CCCAATGGTA	CCTCTTCGAA	AGGATGGTGT	CGTAGACGTG
	1561	CTCCGAGGAG	TGGCAAGGCC	TCATGCGCTT	CAACCTACCA	GCACGCATCT	GCCGGGACAT
		GAGGCTCCTC	ACCGTTCCGG	AGTACGCGAA	GTTGGATGGT	CGTGCGTAGA	CGGCCCTGTA
	1621	CGAGCTATTC	CACTTTGACA	TTGGTCCTTT	CGAGAACATG	TGGCCTGGGA	TCTTTGTCTA
		GCTCGATAAG	GTGAAACTGT	AACCAGGAAA	GCTCTTGTAC	ACCGGACCCT	AGAAACAGAT
	1681	CATGATCCAT	CGGTCTTGTG	GGACATCCTG	TTTTGAACTT	GAAAAATTGT	GCCGTTTTAT
		GTACTAGGTA	GCCAGAACAC	CCTGTAGGAC	AAAACTTGAA	CTTTTTAACA	CGGCAAAATA
	1741	CATGTCTGTG	AAGAAGAACT	ATCGGCGGGT	TCCTTACCAC	AACTGGAAGC	ATGCAGTCAC
		GTACAGACAC	TTCTTCTTGA	TAGCCGCCCA	AGGAATGGTG	TTGACCTTCG	TACGTCAGTG
	1801	GGTGGCACAC	TGCATGTATG	CCATACTTCA	AAACAACAAT	GGCCTCTTCA	CAGACCTCGA
<i></i>		CCACCGTGTG	ACGTACATAC	GGTATGAAGT	TTTGTTGTTA	CCGGAGAAGT	GTCTGGAGCT
1	1861	GCGCAAAGGC	CTGCTAATTG	CGTGTCTGTG	CCATGACCTG	GACCACAGGG	GCTTCAGTAA
1		CGCGTTTCCG	GACGATTAAC	GCACAGACAC	GGTACTGGAC	CTGGTGTCCC	CGAAGTCATT
Ē	1921	CAGCTACCTG	CAGAAGTTCG	ACCACCCCT	GGCGGCGCTG	TACTCCACCT	CCACCATGGA
- 		GTCGATGGAC	GTCTTCAAGC	TGGTGGGGGA	CCGCCGCGAC	ATGAGGTGGA	GGTGGTACCT
ă	1981				CCTTCAGCTG		
					GGAAGTCGAC	the second of th	
.	2041			-	GCTGGAGATC		
	ment a company with a company w	GTGGGACTCG	AGGTCGCTCA	TGCTCGTCCA	CGACCTCTAG	TAGGCGTTTC	GGTAGTAGCG
2	2101				GAAGCAGTTG		
					CTTCGTCAAC		
<i>.</i>	2161				AGACCGTGTC		
					TCTGGCACAG		
	2221				GCCAGTTACA		
			merchanism and the second contraction	error excession excession and control	CGGTCAATGT		
	2281				GATGAAGAAG		
		and the same of th		and the second second second second second	CTACTTCTTC	and the second second second	
	2341				CCCTCAAGGG GGGAGTTCCC		
	0.401	TGTGGCCATT	and the second s	The service of the se	and the same seems to be a seem of the same seems to be a seem	and the second second second	and the second of the second o
	2401				CGTCTAGGAG		
	2461			180. 4	GGAGAAGGTA	the second of th	the second contract of the con
	2461				CCTCTTCCAT		
-	2521	AATGTGGATT	Carrier and Carrie				
	2,72,1				ATCGTTCTCG		
	2581	GAAGGTTGAA			and the second of the second of the second	the second secon	
	2301	CTTCCAACTT					
	2641	TGCTTCTGTG	Commence of the Commence of th			to be the control of the control of	the state of the s
	2011	ACGAAGACAC					
	2701	CGTCGCATAT	and the second second second second second		and the second of the second o	the state of the s	
		GCAGCGTATA					



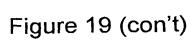
2761				GGCTACTCCG CCGATGAGGC		
2821			and a second control of the control	TGTCTGGAGG		
2021				ACAGACCTCC		
2881	GTTCTTGCCT	GCATCCTCCC	ATGAGGGTGT	GGCCAGTTCC	CTAGTTCTGT	GCCATGCTGC
	CAAGAACGGA	CGTAGGAGGG	TACTCCCACA	CCGGTCAAGG	GATCAAGACA	CGGTACGACG
2941	TGCTTGGTGG	CATTGGTTAG	GAATGGGACA	CACGCCCCTT	GTTGTGAAGT	TTACATGTGA
	ACGAACCACC	GTAACCAATC	CTTACCCTGT	GTGCGGGGAA	CAACACTTCA	AATGTACACT
3001	CCTTCTTATA	GGTTAACTGA	GTTTGTGGCC	TGGGACACAT	GTAATGAAGG	TCACAGTCCA
	GGAAGAATAT	CCAATTGACT	CAAACACCGG	ACCCTGTGTA	CATTACTTCC	AGTGTCAGGT
3061	CAGGTGACAG	AGAAATCCAA	ACTGTTGATT	ACAGGTGCAC	TACAGGTATG	CTCTTTCAGT
	GTCCACTGTC	TCTTTAGGTT	TGACAACTAA	TGTCCACGTG	ATGTCCATAC	GAGAAAGTCA
3121	CTATCTGGGG	GCACATAGGT	GAGTCTGCTC	CACTCAGAAG	GAAGCATACC	TCTSCCCTCA
	GATAGACCCC	CGTGTATCCA	CTCAGACGAG	GTGAGTCTTC	CTTCGTATGG	AGASGGGAGT
3181	TCCAGGGGAC	ACAGGGTACA	TCCCAGGCAT	CGGGGAACTG	AAGCTCTCAC	TTCAAACCAT
	AGGTCCCCTG	TGTCCCATGT	AGGGTCCGTA	GCCCCTTGAC	TTCGAGAGTG	AAGTTTGGTA
3241				TCACTGTAGC		
	CAGTTTCTTA	ATTTTGTGGA	GGGGAGGGG	AGTGACATCG	GAAGCCGTTG	ACGCGGTTAG
3301	CCTTTATACA	AAGAAAATAT	AAGTAAGGCA	TATAAATTTC	CTCCAGCAAG	CAAATCTTGT
	GGAAATATGT	TTCTTTTATA	TTCATTCCGT	ATATTTAAAG	GAGGTCGTTC	GTTTAGAACA
3361	GGGTAAAAAA	AAAAAATGTG	AATTTTAACA	ACCTCTATAT	TTTCACTGTA	TGTTATGGCA
	CCCATTTTTT	TTTTTTACAC	TTAAAATTGT	TGGAGATATA	AAAGTGACAT	ACAATACCGT
3421	GAATTTTAGT	CACGTCCAAA	ACAAAAGATT	ATTCCAGAAG	ATACCTCATC	CTATGCCTGA
	CTTAAAATCA	GTGCAGGTTT	TGTTTTCTAA	TAAGGTCTTC	TATGGAGTAG	GATACGGACT
3481				GGTTCTGATC		
			and the second s	CCAAGACTAG		
3541				ACATTGACCC		
				TGTAACTGGG		
3601				TGTATTGAAT		
				ACATAACTTA	the second second was second as	and a particular of the second
3661				CTGGGAACTC		
				GACCCTTGAG		
3721				ACCAGAGAAT		
		the same of a color of the part and the same	agents and the second control of the second	TGGTCTCTTA	and the second of the second o	
3781				CAGAAACACT		
			and the second of the second o	GTCTTTGTGA		
3841	GCAGGAGAAG					
				CCCTATCTAA		
3901				TTCAGTTTCC		
				AAGTCAAAGG		
3961				CTGTACATGC		
معدد بير	and the second of the second s	to a company of the second control of the se	the committee of the contract	GACATGTACG		
4021	AAATGTCACC					
				GATGAGGTAA	property of the first and the second of the	
4081				TGTGCACACG		
	GTTGTTCTCT	TCGATAGTGT	TGTGGTCCCG	ACACGTGTGC	ACGTGTGTGT	ACATACGTGT

Figure 19 (con't)

	4141				ACACACACAC		
				1 - 1	TGTGTGTGTG		
	4201				CCCATATTCA		
		TCTTTTGTAA	ATATTTTTCG	CTGTCGATGG	GGGTATAAGT	TTTTATCAAG	AAAAGGGACA
	4261				TATCATGAGT		
				Commercial Agreement Commercial Control	ATAGTACTCA		the second secon
	4321				CACGTCTATA		
		AAGAGGGTCC	CCACGAGTGA	CTTCGACCAG	GTGCAGATAT	TTGTCCACTG	TGACCGACGT
	4381	GCAAAAAGCC	ATTCGATCCA	CACAAATTGA	TCTTCTATCA	TCTTGGAATC	TGAATTGCAG
					AGAAGATAGT		
	4441	GGAGGAGCAG	CATGTAAGAC	GACCGTTTAA	TTCAGGCATT	CCGAAGGCAT	GAGCGCATGG
		CCTCCTCGTC	GTACATTCTG	CTGGCAAATT	AAGTCCGTAA	GGCTTCCGTA	CTCGCGTACC
	4501	ATTCTGTCAC	CAAGCGTATA	AAAGGACCCT	GGCATTGGGA	AACCTATGAC	GGACTGTTTT
		TAAGACAGTG	GTTCGCATAT	TTTCCTGGGA	CCGTAACCCT	TTGGATACTG	CCTGACAAAA
	4561	TGCTGTAGAA	GTAGGGATTT	TACAGAAGTC	TCCTTGGATT	TGCCCTGCCT	GGGGCAGTTT
		ACGACATCTT	CATCCCTAAA	ATGTCTTCAG	AGGAACCTAA	ACGGGACGGA	CCCCGTCAAA
	4621	TGCAGAGGAA	CCTGCCAGAG	ATTTATTGGC	TGGTCAGTCT	CTTGTGAAAT	AGTATCATGT
		ACGTCTCCTT	GGACGGTCTC	TAAATAACCG	ACCAGTCAGA	GAACACTTTA	TCATAGTACA
	4681	GAGAAACAGT	TTGTAGAAAA	AAACTATACC	TGGGAAGACC	TTTGCAACAT	TGTTCCTTCC
		CTCTTTGTCA	AACATCTTTT	TTTGATATGG	ACCCTTCTGG	AAACGTTGTA	ACAAGGAAGG
	4741	ATGGGCCAAG	ACTCAGTTAG	GAGGCATAAA	TCTGCCCGGA	ATAAACTAGG	CCAGGATACA
		TACCCGGTTC	TGAGTCAATC	CTCCGTATTT	AGACGGGCCT	TATTTGATCC	GGTCCTATGT
	4801	GCCATGTTTA	GTTAATAATT	TGGTTTTAGA	ATTCACACAG	GCAGGATTGG	TTTTTTTGTG
		CGGTACAAAT	${\tt CAATTATTAA}$	ACCAAAATCT	TAAGTGTGTC	CGTCCTAACC	AAAAAAACAC
	4861	TCTTGGCAAG	TGGAGCATAT	TTAACATACA	GGCATGGGAA	TCCTGCCTCT	TAGCTTTTCC
		AGAACCGTTC	ACCTCGTATA	AATTGTATGT	CCGTACCCTT	AGGACGGAGA	ATCGAAAAGG
	4921	CACCCTCTTG	TCTCACCAAG	TTTTTTCTCT	CCAAAGGTTT	CCAGGAATTT	CTCATTAATG
		GTGGGAGAAC	AGAGTGGTTC	AAAAAAGAGA	GGTTTCCAAA	GGTCCTTAAA	GAGTAATTAC
	4981	GCTGATGCAA	ACTTAGTGAA	TAATAATGAA	TATAAACAAT	GCTCACCTCA	CCAAAATTAT
		CGACTACGTT	TGAATCACTT	ATTATTACTT	ATATTTGTTA	CGAGTGGAGT	GGTTTTAATA
	5041	ATTATTTGCA	GTCATTTGTG	ATAACACAAA	TTTTATCGCA	ATGGTTATTA	TTTAATTTGT
		TAATAAACGT	CAGTAAACAC	TATTGTGTTT	AAAATAGCGT	TACCAATAAT	AAATTAAACA
	5101	GGCCACACAC	TGTGGTTATC	TTTTGTTGTG	GTTGTTTCTG	AGAAAATGTT	CTTGGATATG
		CCGGTGTGTG	ACACCAATAG	AAAACAACAC	CAACAAAGAC	TCTTTTACAA	GAACCTATAC
	5161	TAAGTGCCAA	TACCAGTGTG	AAGTATTGAT	CCCGGGCAGC	AAAATACAGC	CTAAGGTTTG
		ATTCACGGTT	ATGGTCACAC	TTCATAACTA	GGGCCCGTCG	TTTTATGTCG	GATTCCAAAC
	5221	TAAACATCAA	TTCTATCTCA	GTTCATCAGA	GGGCCTGAGA	AGCTGCGGGG	CAGTGTAAAG
		ATTTGTAGTT	AAGATAGAGT	CAAGTAGTCT	CCCGGACTCT	TCGACGCCCC	GTCACATTTC
	5281	TAAAGTATGC	TGGGCTGGTG	GTGGTCAGCC	TCCCCTTGCC	AAGAAGAGAG	CAATTGAATC
		ATTTCATACG	ACCCGACCAC	CACCAGTCGG	AGGGGAACGG	TTCTTCTCTC	GTTAACTTAG
	5341	CTGTCCCCAG	CTCCCTCCAC	GCCTGAAGAG	TGACCAGTGC	TGGCCCGACG	GATCGCTGAG
		GACAGGGGTC	GAGGGAGGTG	CGGACTTCTC	ACTGGTCACG	ACCGGGCTGC	CTAGCGACTC
	5401	ATATTCTCCC	ATAATGGCAA	AAAAATAGGC	AGTTTGATGT	GACCTGTTTA	GTGTGGCTCT
_		TATAAGAGGG	TATTACCGTT	TTTTTATCCG	TCAAACTACA	CTGGACAAAT	CACACCGAGA
	5461				TTTATACTCA		
-		GGAGAAAACT	CGTACACAAT	CGTAAAAATA	AAATATGAGT	AGGTCACTTG	AGACGAGAAG

Figure 19 (con't)

	5521			CTAGATATAT			
			Commence of the commence of th	GATCTATATA	the state of the s	•	
	5581	CTTAGAGACC	CGGCCTTTCA	ATGAGCTTAG	CTTGTGCTCT	GTTTCTGCTC	TCTTAGGTCT
		GAATCTCTGG	GCCGGAAAGT	TACTCGAATC	GAACACGAGA	CAAAGACGAG	AGAATCCAGA
	5641	AAACTATGGT	GTCAGTTTTA	ATAGAACAAA	AGTATGCATC	TTGCCTTGGC	TTGAGCCTTT
		TTTGATACCA	CAGTCAAAAT	TATCTTGTTT	TCATACGTAG	AACGGAACCG	AACTCGGAAA
	5701	TCGTTTTCAA	TGCTGACTTC	TCCCCTTTCT	CTCCTGTGCT	CACCTTACCT	TTCCAGAGTG
		AGCAAAAGTT	ACGACTGAAG	AGGGGAAAGA	GAGGACACGA	GTGGAATGGA	AAGGTCTCAC
	5761	TAAGGGACAA	CTTTTAAGGA	GGCGTGTCCC	TGGTAGGGGC	ATCCCTGTTC	ACCAGGTGCC
		ATTCCCTGTT	GAAAATTCCT	CCGCACAGGG	ACCATCCCCG	TAGGGACAAG	TGGTCCACGG
	5821	TGTCATCACC	CCACTTGACT	GACATCTACC	CTGGTGACTA	TGGGTTCCTC	TTGTTTGTAG
		ACAGTAGTGG	GGTGAACTGA	CTGTAGATGG	GACCACTGAT	ACCCAAGGAG	AACAAACATC
	5881			AGGCATCAAT			
Sug.		CCTTGCCACC	${\tt GAGGTCCACC}$	TCCGTAGTTA	GACAACCCAA	GACCAAGGGC	CGACGGAAAC
ad #5	5941	GTTTTGAAAG	TCTCTTCTCT	GTATATTCCT	ACCCTGCATT	TGCTTTGTGT	GGTGCTGATG
63 54		CAAAACTTTC	AGAGAAGAGA	CATATAAGGA	TGGGACGTAA	ACGAAACACA	CCACGACTAC
5 4 121	6001			ATGACTCTCC			
		GACACCGTCA	TCCTAGAACC	TACTGAGAGG	TAGTCAGTGT	CTGAGGGGGA	CAACGTTTCA
19 J	6061			ACCGTAAAAT			
red red		CAGTCCGACT	GAGCTGTCAG	TGGCATTTTA	GACTCAGTCA	GTGTGTGTCC	GACAGTCGGT
	6121	CGGCTTCCAC	TTGCATGGCT	ATTCTATTTT	CACACGTGAG	TTTCTGTTGC	TGGCTGGCTG
		GCCGAAGGTG	AACGTACCGA	TAAGATAAAA	GTGTGCACTC	AAAGACAACG	ACCGACCGAC
min.	6181	ACTGGCATTA	TCTATGCTAA	GTTGAAATCA	GGAGTGTGCC	CAGCAGAGCC	CATCATTCTC
		TGACCGTAAT	AGATACGATT	CAACTTTAGT	CCTCACACGG	GTCGTCTCGG	GTAGTAAGAG
	6241			GTACGGTTTG			
7 1		TGACAGAAAC	TTTGTTTCGA	CATGCCAAAC	TAGCTACTTG	CATAAATTTC	GTAAAGTACG
1000	6301			TGGAAGGCAG			TCCTTACTAT
				ACCTTCCGTC			
	6361			GGAACAGTAC			
				CCTTGTCATG			
	6421			GTGTGTGTCT			
				CACACACAGA			
	6481			ATACATTTGC			
				TATGTAAACG	man contract the contract of t		
	6541			AGCGTACCTA			
				TCGCATGGAT			
	6601	TTCTTGGTTT	GGTCACCCCG	ATCCCCCGGT	CTTCTGCTGT	ATCTAGAACA	GTGACTATAA
				TAGGGGGCCA			
	6661	ATGATGTATG	GGAATAGTGT	TTCCATATGA	TCTGTTGTCT	GGAGTATATG	CTACATGTTC
				AAGGTATACT			
	6721	ATTTACTGTA	CAAAAACCCA	GTGCAGCTGA	TGATGCAAAG	CAGTCTCTCT	CTGTGTACAG
		TAAATGACAT	${\tt GTTTTTGGGT}$	CACGTCGACT	ACTACGTTTC	GTCAGAGAGA	GACACATGTC
	6781	TGCCCCACCT	TAAAATTTA	CACGTACAAN	CCCAGAACAC	TGTGAAACAC	TTAACATAAG
		ACGGGGTGGA	TAAATTTTTA	GTGCATGTTN	GGGTCTTGTG	ACACTTTGTG	AATTGTATTC
	6841	AAACAAACGC	AGCGTCTGGA	TTCTTTCCAA	GGAGAGCAGC	TTTCTCCACA	GGAACACAGT
		TTTGTTTGCG	TCGCAGACCT	AAGAAAGGTT	CCTCTCGTCG	AAAGAGGTGT	CCTTGTGTCA



	6901	AACAAAAGAG	GTCCGCCGCC	ATCCACACCC	AGCCAAGACA	CCTCAGAGGC	CATAGGGACA
		TTGTTTTCTC	CAGGCGGCGG	TAGGTGTGGG	TCGGTTCTGT	GGAGTCTCCG	GTATCCCTGT
	6961	ACCTCCTTGC	TGGCCAACAC	CTGCTGGAGC	AGGGCACAGG	TCCCAGCAAC	TGATCCTCAG
	~	TGGAGGAACG	ACCGGTTGTG	GACGACCTCG	TCCCGTGTCC	AGGGTCGTTG	ACTAGGAGTC
	7021	TGGATGGGTC	CGCAGTCAAA	GCCTTAATGG	GCTCTCTTTT	GAAGGGGAAA	GAAANNTTTC
		ACCTACCCAG	GCGTCAGTTT	CGGAATTACC	CGAGAGAAAA	CTTCCCCTTT	CTTTNNAAAG
	7081	AAGCTTATGA	TATCCAACAT	TATTATAGTT	GATGAGTTAG	TAAATTCCGA	AAAAAAAGA
		TTCGAATACT	ATAGGTTGTA	ATAATATCAA	CTACTCAATC	ATTTAAGGCT	TTTTTTTCT
	7141	TGATTTTATA	TGTATGACAT	AAAAAAAATC	TTTGTAAAGT	GCGCAAGTGC	AATTAATTAA
		ACTAAAATAT	ACATACTGTA	TTTTTTTAG	AAACATTTCA	CGCGTTCACG	TTAAAATT
	7201	AGAGGTCTTA	TCTTTGCATT	TATAAATTAT	AAATATTGTA	CATGTGTGTA	ATTTTTCATG
		TCTCCAGAAT	AGAAACGTAA	ATATTTAATA	TTTATAACAT	GTACACACAT	TAAAAAGTAC
	7261	TATTCATTTG	CAGTCTTTGT	AAAAAATTTA	ACTTTACTGT	TATGTTTGTA	TAATAGAACA
		ATAAGTAAAC	GTCAGAAACA	TTTTTAAAT	TGAAATGACA	ATACAAACAT	ATTATCTTGT
The second secon	7321	TTAATCATTT	ATTATAACTC	AGACAAGGTG	TTAAATAAAT	CATAATTCAA	ACAGCCAGTA
### ### ###		AATTAGTAAA	TAATATTGAG	TCTGTTCCAC	AATTATTAA	GTATTAAGTT	TGTCGGTCAT
THE PERSONS ASSESSED TO THE PE	7381	TATATGCATA	TATGGGTGTT	ACATTGCAAA	AATCTCTATC	TTTGTTCTAT	TCACATGCTT
1.55 2.5 2.5 2.5		ATATACGTAT	ATACCCACAA	TGTAACGTTT	TTAGAGATAG	AAACAAGATA	AGTGTACGAA
	7441	AAAGAAGTAA	GAAATCTTTT	GTGGATATGT	AATTATACAT	ATAAAGTATA	TATATATGTA
		TTTCTTCATT	CTTTAGAAAA	CACCTATACA	TTAATATGTA	TATTTCATAT	ATATATACAT
1200	7501	TGATACATGA	ATTTATATAA	GAAATGTTCA		GGATATTCTT	TGGTGTGAAT
F. 6		ACTATGTACT	TAAATATATT	CTTTACAAGT	ATTAAAATTA	CCTATAAGAA	ACCACACTTA
1	7561			AAATGAAAAA		AAAAAAAAA	
mile.		TTAACTTATG	TTGTAAAAAT	TTTACTTTTT	TTTTTTTTTT	TTTTTTTTTT	TTTTTTTT